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Aboveground Tree Biomass Statistics for Maine: 1982

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Abstract

Traditional measures of volume inadequately describe the total aboveground wood resource. The 1980-82 inventory of Maine included estimates of aboveground tree biomass on timberland. There are nearly 1,504.4 million green tons of wood and bark in all trees above the ground level, or 88.2 green tons per acre of timberland. Most of the biomass is in growing stock, but 49 percent is in the tops and branches of trees, cull trees (including noncommercial tree species), salvable dead trees, saplings, and stumps above the ground.

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Foreword

The USDA Forest Service has recently completed a third inventory of Maine's forest resources. The results from the two previous inventories conducted in Maine were reported by Ferguson and Longwood (1960) and Ferguson and Kingsley (1972). Statistics on land areas, timber volume, and numbers of trees from the third inventory conducted in 1980-82 also have been published (Powell and Dickson 1984).

This report presents forest resource data including biomass statistics based on the third inventory. The estimates of timberland area and timber volume in this report are a summary of information collected; they are based on a partial remeasurement of field plots established during earlier inventories and on a measurement of 2,275 new field plots. The estimates of numbers of trees and aboveground tree biomass are based only on the new field plot measurements.

Data were collected, processed, and analyzed by the Forest Inventory and Analysis staff. The Maine Bureau of Forestry, Department of Conservation, provided supplemental funding to intensify the reinventory and assisted significantly with the planning, data collection, and analysis of the inventory.
For additional publications or more resource data, contact: Forest Inventory and Analysis Project, USDA Forest Service, 370 Reed Road, Broomall, PA 19008 (phone: 215-461-3037), or Director, Maine Bureau of Forestry, State House Station #22, Augusta, ME 04333 (phone: 207-289-2791).

Highlights

* There are approximately 47,677.4 million board feet of sawtimber,[1] approximately 22,796.1 million cubic feet of growing stock, and approximately 1,504.4 million green tons of aboveground tree biomass in Maine.

* Maine timberlands average 88.2 green tons of aboveground tree biomass per acre, and range from a low of 72.3 green tons per acre in Sagadahoc County to a high of 95.2 green tons per acre in York County.

* The growing-stock portion accounts for 51 percent of the aboveground tree biomass, the tops and branches of growing-stock trees for 20 percent, saplings for 15 percent, cull trees for 11 percent, salvable dead trees for 2 percent, and stumps above the ground for 1 percent.

* Sawtimber stands contain 880.1 million green tons of aboveground tree biomass, or 103.3 green tons per acre of timberland.

* The spruce/fir forest-type group contains the largest amount of aboveground tree biomass (674.3 million green tons), but the white/red pine forest-type group is more concentrated (101.2 green tons per acre of timberland).

* In terms of aboveground tree biomass, balsam fir is the leading species with 243.9 million green tons, followed by red spruce and soft maples with 240.7 and 147.3 million green tons, respectively. There are more soft maple trees than red spruce trees, but the red maple trees contribute less to the total biomass.

* Noncommercial hardwoods account for 14 percent of all hardwood trees in Maine, but account for only 3 percent of the hardwood aboveground tree biomass resource.

* Cull and salvable dead trees average 12.3 green tons of aboveground tree biomass per acre of timberland, and range from a low of 7.1 green tons per acre in Androscoggin County to a high of 15.5 green tons per acre in Penobscot County.

* The spruce/fir forest-type group contains the highest amount of cull and salvable dead tree biomass in Maine--85.3 million green tons.

* Softwoods make up 56 percent of the aboveground tree biomass when all trees are considered, but hardwoods make up 58 percent of the aboveground biomass when only the cull and salvable dead trees are considered.

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[1] This term and others are defined in the Appendix.

Background

Forest resource statistics are usually provided to reflect timber production on forest land. For that reason, sawtimber volumes (expressed as board feet) and growing-stock volumes (expressed as cubic feet) of specific trees are estimated in USDA Forest Service inventories. Sawtimber is the main stem of trees at least 9.0 inches dbh (diameter at breast height) for softwoods and at least 11.0 inches dbh for hardwoods, between a 1-foot stump height and a 7.0-inch top dob (diameter outside bark) for softwoods and 9.0-inch top dob for hardwoods (Fig. 1). Growing stock is the main stem of trees at least 5.0 inches dbh, between a 1-foot stump height and a 4.0-inch top dob.

While timber production is the primary use of forest land, data users are also interested in how the forest resource can be used for energy, fiber-based products, wildlife, and recreation. Since estimates of the merchantable stem do not describe the resource in terms useful for multi-resource purposes, biomass estimates have been incorporated into the standard USDA Forest Service inventory procedure. For the purpose of this report, biomass is the green weight of trees at least 1.0 inch dbh above the ground (wood and bark). Foliage, rotten material, and the stump-root system below the ground are excluded (Fig. 1).

Weight equations have been developed for the important tree species in Maine (Young et al. 1980). Those equations were substituted for the conventional volume equations used during the compilation of statewide statistics to provide an estimate of biomass in all trees above the stump. However, these equations do not allow for the estimation of specific components of trees such as stump biomass (between the ground level and a 1-foot stump height) and merchantable stem biomass (between a 1-foot stump height and a 4-inch top dob); separate techniques were used to derive these estimates.

Stump biomass was developed through a two-step process. First, the volume in stumps was estimated from regression equations using diameter at breast height as the dependent variable (Raile 1982). Second, the volumes were converted to weight using species-specific weight/volume ratios (Markwardt 1930).

The weight of the merchantable stem was calculated by applying weight/volume ratios to estimates of volume. Timber volume was estimated from new regression equations for both sawtimber and growing stock (Scott 1979, 1981). The difference between above-stump biomass derived from the weight regression equations and the independent estimate of merchantable stem biomass resulted in the biomass in the tops and branches.

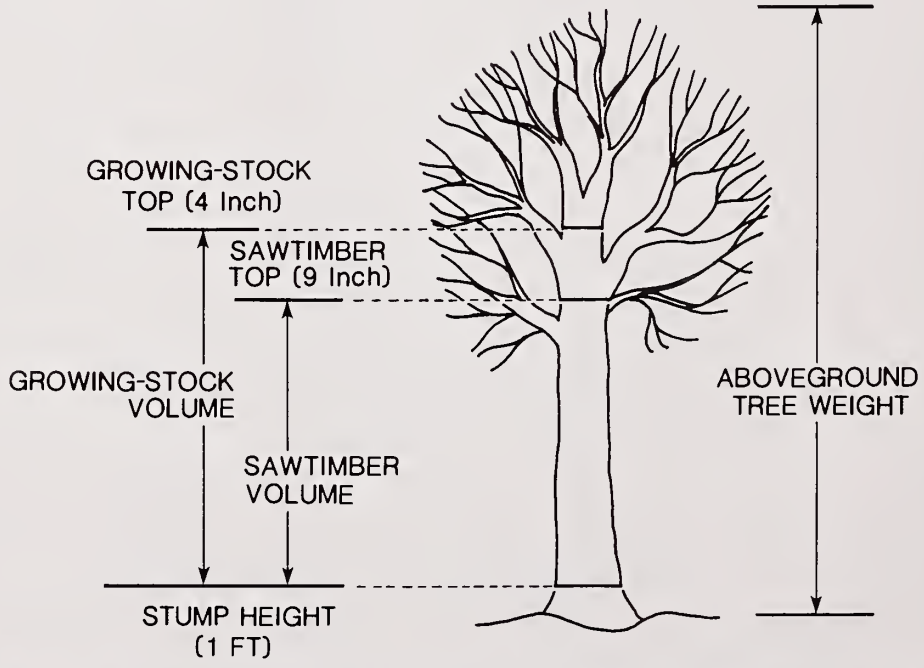

Figure 1.--Volume and weight relationships of hardwood aboveground tree biomass components.

Estimates of timberland area, timber volume, numbers of trees, and aboveground tree biomass have been summarized in the tables. The statistics are presented by forest-type group, species or species group, and diameter class; all estimates are provided at the state and county level.

Reliability of the Estimates

Two important sources of error arise from the estimates provided in this report: (1) the error associated with estimation from sample plots, and (2) the error associated with combining independent estimates. Some of the errors of the estimates are provided in the tables, and are shown as a percentage of the total.

Errors associated with estimation from sample plots are used as follows: the estimate of aboveground biomass in all trees on Maine's timberlands is 1,504.4 million green tons, but this estimate has an associated sampling error of 1.0 percent, or 15.0 million green tons. This means that if the survey were repeated, there is a 66 percent probability (2 to 1) that the resulting estimate of aboveground tree biomass would be 1,504.4 $\pm$ 15.0 million green tons, or between 1,489.4 and 1,519.4 million green tons. There is a 95 percent probability (19 to 1) that the estimate would be 1,504.4 $\pm$ 30.0 million green tons.

State-level statistics are the most reliable because they have the smallest sampling errors. As stated previously, the estimate of aboveground tree biomass in all trees on Maine's timberlands has a sampling error of 1.0 percent, or 1,504.4 $\pm$ 15.0 million green tons. However, the estimate of aboveground tree biomass of all trees in Androscoggin County has a sampling error of 6.3 percent, or 18.8 $\pm$ 1.2 million green tons. Therefore, county-level estimates are often considerably less reliable than state-level estimates. In general, as the sample size used to derive an estimate decreases in relation to the total, the sampling error increases.

Some of the estimates presented in the tables have errors that are greater than 25 percent and may not be reliable. An estimate with an error of 50 percent or more would not be significantly different from zero, and an estimate with an error between 25 and 50 percent would be suspect. Consequently, those estimates that have errors exceeding 25 percent should be used with caution.

The second important source of error in this report occurs when two independent estimates are used to derive a third. The biomass in tops and branches has been estimated in this manner. The independent estimate of the merchantable stem biomass was subtracted from the estimate of above-stump biomass to yield an estimate of the biomass in tops and branches. Estimates derived in this manner should also be used with caution.

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Acknowledgments

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David R. Dickson supervised the data processing tasks. Margaret Little and Carol McAfee performed a variety of data editing and compilation tasks. Marie Pennestri typed the text for this report. Carmela M. Hyland was responsible for administrative and secretarial services.

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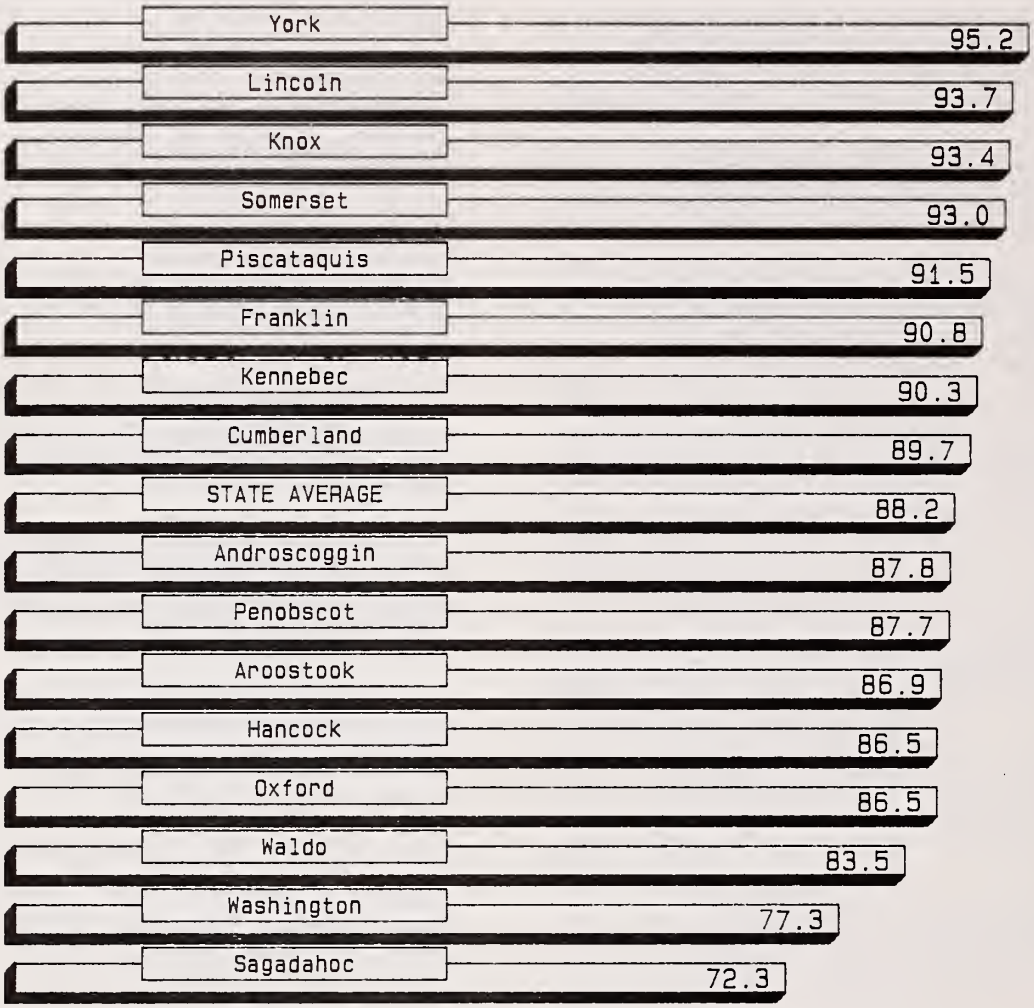
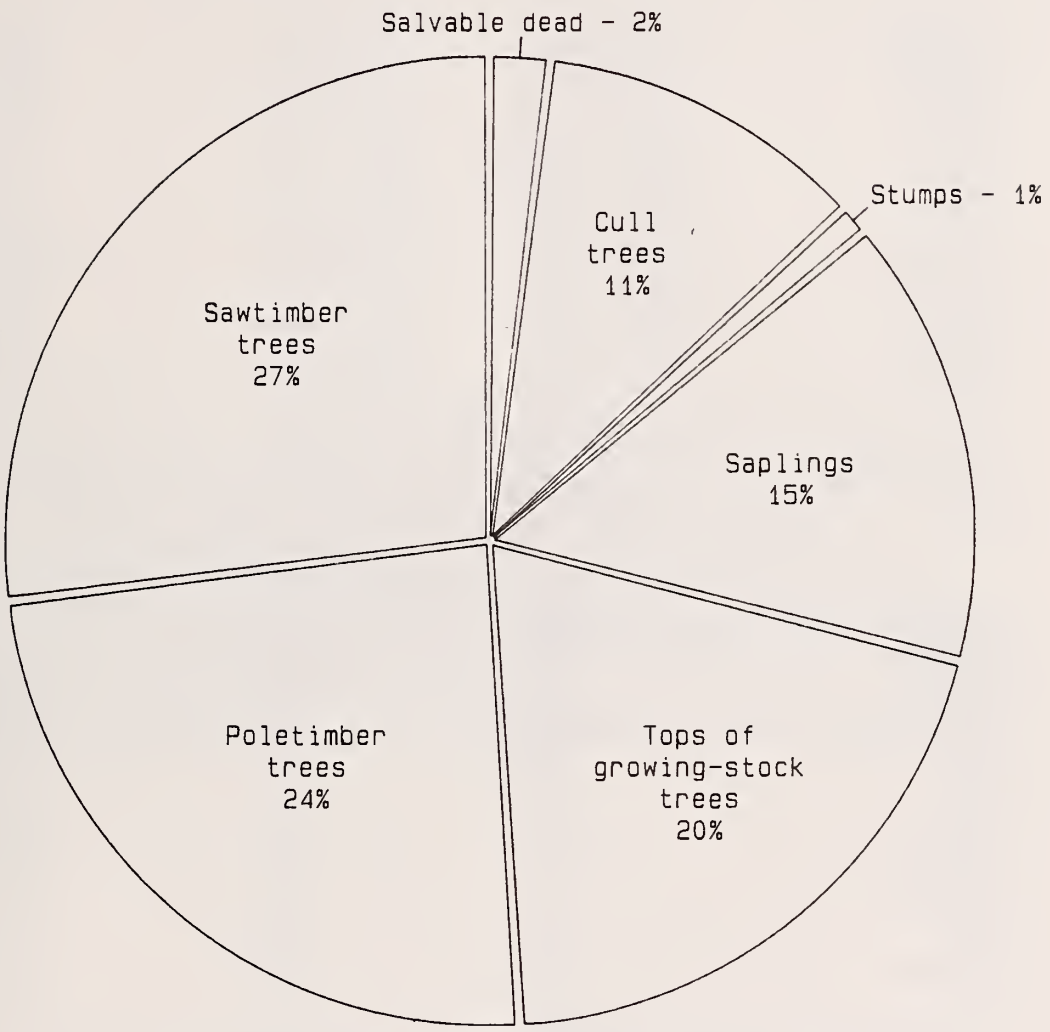
Index to Tables

The tables are divided into three sections: (1) net volume and aboveground biomass of all trees, (2) net aboveground biomass of all live trees (excludes salvable dead trees), and (3) net aboveground biomass of cull and salvable dead trees.

Green Tons of Aboveground Tree Biomass Per Acre of Timberland by County, Maine, 1982



ABOVEGROUND BIOMASS OF ALL TREES



Distribution of Biomass by Source of Material

Table 1.--Net volume of sawtimber, growing stock and aboveground tree biomass of all trees on timberland by county and species group, Maine, 1982

County	Species group		All species
	Softwoods	Hardwoods	
	SAWTIMBER[a]		
	Million board feet		
Androscoggin	504.6	141.6	646.2
Aroostook	7,981.7	3,174.6	11,156.3
Cumberland	1,085.3	241.6	1,326.9
Franklin	1,540.1	1,130.0	2,670.1
Hancock	1,543.9	277.8	1,821.7
Kennebec	786.8	323.7	1,110.5
Knox	325.9	161.6	487.5
Lincoln	566.5	170.6	737.1
Oxford	1,898.9	1,196.3	3,095.2
Penobscot	3,145.2	1,446.8	4,592.0
Piscataquis	5,592.4	2,196.1	7,788.5
Sagadahoc	276.8	87.8	364.6
Somerset	4,396.3	2,419.9	6,816.2
Waldo	398.5	229.5	628.0
Washington	1,956.1	651.5	2,607.6
York	1,478.6	350.4	1,829.0
All counties	33,477.6	14,199.8	47,677.4
	GROWING STOCK[b]		
	Million cubic feet		
Androscoggin	149.5	137.2	286.7
Aroostook	3,855.4	1,493.6	5,349.0
Cumberland	334.6	210.6	545.2
Franklin	717.0	725.9	1,442.9
Hancock	661.1	263.2	924.3
Kennebec	240.3	269.6	509.9
Knox	126.2	93.6	219.8
Lincoln	178.7	104.0	282.7
Oxford	817.1	768.3	1,585.4
Penobscot	1,418.5	787.2	2,205.7
Piscataquis	2,468.8	982.1	3,450.9
Sagadahoc	77.9	68.6	146.5
Somerset	2,175.2	1,246.0	3,421.2
Waldo	188.9	208.8	397.7
Washington	944.8	414.0	1,358.8
York	404.3	265.1	669.4
All counties	14,758.3	8,037.8	22,796.1

Table 1.--Continued

County	Species group		All species
	Softwoods	Hardwoods	
	TREE BIOMASS[c]		
	Thousand green tons		
Androscoggin	8,712.8	10,095.6	18,808.4
Aroostook	201,567.7	125,946.9	327,514.6
Cumberland	19,774.8	16,702.7	36,477.5
Franklin	39,414.8	52,664.0	92,078.8
Hancock	40,541.7	26,627.5	67,169.2
Kennebec	15,306.4	20,879.3	36,185.7
Knox	7,828.8	7,617.2	15,446.0
Lincoln	11,524.4	9,478.4	21,002.8
Oxford	44,236.0	58,768.5	103,004.5
Penobscot	89,977.0	74,316.0	164,293.0
Piscataquis	130,432.6	74,340.8	204,773.4
Sagadahoc	4,629.0	4,390.3	9,019.3
Somerset	117,385.1	99,725.6	217,110.7
Waldo	12,820.0	17,406.1	30,226.1
Washington	67,671.5	44,691.8	112,363.3
York	24,698.0	24,210.5	48,908.5
All counties	836,520.6	667,861.2	1,504,381.8

[a]Net volume in board feet, by International 1/4-inch rule, of live trees of commercial species at least 9.0 inches dbh (diameter breast height) for softwoods or 11.0 inches dbh for hardwoods, between a 1-foot stump height and a minimum sawlog top of 7.0 inches dob (diameter outside bark) for softwoods or 9.0 inches dob for hardwoods, or until the point on the main stem above which a sawlog cannot be produced.

[b]Net volume, in cubic feet, of live trees of commercial species at least 5.0 inches dbh, between a 1-foot stump height and a minimum top of 4.0 inches dob, or to the point where the main stem breaks into limbs.

[c]Net biomass, in green tons, of all trees (commercial species, noncommercial species, cull trees, and salvable dead trees) at least 1.0 inch dbh, above the ground level (excluding foliage).

Table 2.--Area of timberland, net aboveground tree biomass of all trees on timberland, and net aboveground tree biomass per acre of timberland by county, Maine, 1982

County	Timberland area	Total aboveground tree biomass	Total aboveground tree biomass per unit area
	Thousand acres	Thousand green tons	Green tons per acre
Androscoggin	214.1	18,808.4	87.8
Aroostook	3,768.4	327,514.6	86.9
Cumberland	406.5	36,477.5	89.7
Franklin	1,014.2	92,078.8	90.8
Hancock	776.3	67,169.2	86.5
Kennebec	400.8	36,185.7	90.3
Knox	165.4	15,446.0	93.4
Lincoln	224.1	21,002.8	93.7
Oxford	1,190.6	103,004.5	86.5
Penobscot	1,872.7	164,293.0	87.7
Piscataquis	2,238.1	204,773.4	91.5
Sagadahoc	124.7	9,019.3	72.3
Somerset	2,334.5	217,110.7	93.0
Waldo	362.1	30,226.1	83.5
Washington	1,454.2	112,363.3	77.3
York	513.5	48,908.5	95.2
All counties	17,060.2	1,504,381.8	88.2

Table 3.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	232,910.7	110,684.7	343,595.4	2
Upper stem	32,706.2	27,827.6	60,533.8	2
Total	265,616.9	138,512.3	404,129.2	2
Poletimber trees	181,544.4	174,834.2	356,378.6	1
All growing stock	447,161.3	313,346.5	760,507.8	1
Rough cull trees[b]	32,680.4	45,855.7	78,536.1	3
Rotten cull trees[b]	12,953.8	32,640.2	45,594.0	4
Salvable dead trees[c]	22,957.2	10,383.9	33,341.1	4
Saplings[d]	117,959.2	106,186.1	224,145.3	3
Stumps[e]	11,228.5	9,353.4	20,581.9	1
Tops - growing stock	173,543.1	120,135.3	293,678.4	1
Tops - rough and rotten	18,037.1	29,960.1	47,997.2	2
All nongrowing stock	389,359.3	354,514.7	743,874.0	1
All classes	836,520.6	667,861.2	1,504,381.8	1.0
Sampling error (percent)	2	2	1.0	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.

[c]Includes entire tree above a 1-foot stump height.

[d]Includes entire tree above the ground.

[e]Of all trees 5.0 inches dbh and larger.

Table 4.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Androscoggin County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	3,601.5	969.3	4,570.8	14
Upper stem	421.9	255.9	677.8	12
Total	4,023.4	1,225.2	5,248.6	14
Poletimber trees	1,132.8	3,458.1	4,590.9	9
All growing stock	5,156.2	4,683.3	9,839.5	8
Rough cull trees[b]	195.9*	493.0	688.9	17
Rotten cull trees[b]	32.2*	240.9*	273.1*	35
Salvable dead trees[c]	87.9*	66.3*	154.2*	29
Saplings[d]	1,276.6*	2,276.5	3,553.1	20
Stumps[e]	90.1	119.8	209.9	8
Tops - growing stock	1,785.0	1,924.1	3,709.1	7
Tops - rough and rotten	88.9	291.7	380.6	16
All nongrowing stock	3,556.6	5,412.3	8,968.9	8
All classes	8,712.8	10,095.6	18,808.4	6.3
Sampling error (percent)	13	10	6.3	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.

[c]Includes entire tree above a 1-foot stump height.

[d]Includes entire tree above the ground.

[e]Of all trees 5.0 inches dbh and larger.

Table 5.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Aroostook County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	51,584.3	25,018.7	76,603.0	4
Upper stem	7,646.9	6,018.9	13,665.8	3
Total	59,231.2	31,037.6	90,268.8	4
Poletimber trees	49,368.3	28,191.1	77,559.4	3
All growing stock	108,599.5	59,228.7	167,828.2	2
Rough cull trees[b]	5,967.0	10,155.0	16,122.0	6
Rotten cull trees[b]	3,060.2	6,661.7	9,721.9	8
Salvable dead trees[c]	7,871.2	2,823.3	10,694.5	7
Saplings[d]	26,182.9	17,087.1	43,270.0	6
Stumps[e]	2,970.6	1,812.5	4,783.1	2
Tops - growing stock	43,318.8	22,034.9	65,353.7	2
Tops - rough and rotten	3,597.5	6,143.7	9,741.2	5
All nongrowing stock	92,968.2	66,718.2	159,686.4	2
All classes	201,567.7	125,946.9	327,514.6	1.9
Sampling error (percent)	4	5	1.9	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.
[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.
[c]Includes entire tree above a 1-foot stump height.
[d]Includes entire tree above the ground.
[e]Of all trees 5.0 inches dbh and larger.

Table 6.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Cumberland County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	7,850.3	1,758.5	9,608.8	8
Upper stem	999.8	500.0	1,499.8	7
Total	8,850.1	2,258.5	11,108.6	8
Poletimber trees	2,276.7	5,037.3	7,314.0	7
All growing stock	11,126.8	7,295.8	18,422.6	6
Rough cull trees[b]	1,890.5	1,096.2	2,986.7	15
Rotten cull trees[b]	88.8*	412.8	501.6	20
Salvable dead trees[c]	87.8*	69.7*	157.5	24
Saplings[d]	1,761.5	4,033.8	5,795.3	10
Stumps[e]	215.5	218.8	434.3	6
Tops - growing stock	3,923.9	2,964.7	6,888.6	5
Tops - rough and rotten	680.0	610.9	1,290.9	11
All nongrowing stock	8,648.0	9,406.9	18,054.9	5
All classes	19,774.8	16,702.7	36,477.5	4.6
Sampling error (percent)	8	7	4.6	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.
[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.
[c]Includes entire tree above a 1-foot stump height.
[d]Includes entire tree above the ground.
[e]Of all trees 5.0 inches dbh and larger.

Table 7.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Franklin County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	10,521.9	8,762.1	19,284.0	9
Upper stem	1,548.5	2,312.0	3,860.5	7
Total	12,070.4	11,074.1	23,144.5	8
Poletimber trees	8,964.6	16,253.2	25,217.8	5
All growing stock	21,035.0	27,327.3	48,362.3	4
Rough cull trees[b]	1,344.4	2,373.3	3,717.7	12
Rotten cull trees[b]	560.1	2,422.7	2,982.8	12
Salvable dead trees[c]	1,679.8	603.2*	2,283.0	14
Saplings[d]	5,143.6	6,720.7	11,864.3	12
Stumps[e]	522.5	747.4	1,269.9	4
Tops - growing stock	8,313.4	10,569.2	18,882.6	4
Tops - rough and rotten	816.0	1,900.2	2,716.2	9
All nongrowing stock	18,379.8	25,336.7	43,716.5	4
All classes	39,414.8	52,664.0	92,078.8	3.6
Sampling error (percent)	9	6	3.6	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.
[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.
[c]Includes entire tree above a 1-foot stump height.
[d]Includes entire tree above the ground.
[e]Of all trees 5.0 inches dbh and larger.

Table 8.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Hancock County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	11,363.4	2,369.7	13,733.1	11
Upper stem	1,547.0	639.1	2,186.1	10
Total	12,910.4	3,008.8	15,919.2	11
Poletimber trees	7,467.3	7,239.4	14,706.7	7
All growing stock	20,377.7	10,248.2	30,625.9	7
Rough cull trees[b]	2,053.4	3,042.5	5,095.9	11
Rotten cull trees[b]	296.2	1,358.1	1,654.3	16
Salvable dead trees[c]	471.5	360.8*	832.3	16
Saplings[d]	8,203.4	5,389.1	13,592.5	11
Stumps[e]	480.0	352.7	832.7	6
Tops - growing stock	7,702.8	4,135.5	11,838.3	6
Tops - rough and rotten	956.7	1,740.6	2,697.3	10
All nongrowing stock	20,164.0	16,379.3	36,543.3	5
All classes	40,541.7	26,627.5	67,169.2	5.1
Sampling error (percent)	8	10	5.1	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.
[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.
[c]Includes entire tree above a 1-foot stump height.
[d]Includes entire tree above the ground.
[e]Of all trees 5.0 inches dbh and larger.

Table 9.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Kennebec County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	6,497.0	2,422.5	8,919.5	11
Upper stem	753.5	654.2	1,407.7	9
Total	7,250.5	3,076.7	10,327.2	11
Poletimber trees	1,923.1	7,111.4	9,034.5	6
All growing stock	9,173.6	10,188.1	19,361.7	6
Rough cull trees[b]	661.7*	874.9	1,536.6	15
Rotten cull trees[b]	206.8	528.8	735.6	15
Salvable dead trees[c]	111.1*	88.8*	199.9	22
Saplings[d]	1,543.9	4,276.1	5,820.0	10
Stumps[e]	173.5	261.3	434.8	5
Tops - growing stock	3,110.7	4,089.7	7,200.4	5
Tops - rough and rotten	325.1	571.6	896.7	12
All nongrowing stock	6,132.8	10,691.2	16,824.0	5
All classes	15,306.4	20,879.3	36,185.7	4.5
Sampling error (percent)	9	6	4.5	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.
[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.
[c]Includes entire tree above a 1-foot stump height.
[d]Includes entire tree above the ground.
[e]Of all trees 5.0 inches dbh and larger.

Table 10.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Knox County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	2,338.5	1,321.0	3,659.5	14
Upper stem	312.4	326.5	638.9	13
Total	2,650.9	1,647.5	4,298.4	14
Poletimber trees	1,574.0	1,999.1	3,573.1	10
All growing stock	4,224.9	3,646.6	7,871.5	9
Rough cull trees[b]	301.0*	440.7	741.7	20
Rotten cull trees[b]	148.2*	327.8	476.0	18
Salvable dead trees[c]	28.6**	69.6**	98.2	41
Saplings[d]	1,277.7*	1,327.0	2,604.7	18
Stumps[e]	88.6	99.2	187.8	8
Tops - growing stock	1,605.3	1,403.2	3,008.5	9
Tops - rough and rotten	154.5	303.1	457.6	13
All nongrowing stock	3,603.9	3,970.6	7,574.5	7
All classes	7,828.8	7,617.2	15,446.0	7.2
Sampling error (percent)	12	13	7.2	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.
[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.
[c]Includes entire tree above a 1-foot stump height.
[d]Includes entire tree above the ground.
[e]Of all trees 5.0 inches dbh and larger.

Table 11.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Lincoln County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	4,576.8	1,422.6	5,999.4	14.1
Upper stem	550.7	372.5	923.2	12.2
Total	5,127.5	1,795.1	6,922.6	13.7
Poletimber trees	1,594.7	2,308.8	3,903.5	8.5
All growing stock	6,722.2	4,103.9	10,826.1	9.4
Rough cull trees[b]	446.9	639.5	1,086.4	16.4
Rotten cull trees[b]	145.4	327.4	472.8	17.4
Salvable dead trees[c]	65.5	126.7	192.2	44.7
Saplings[d]	1,484.1	2,189.5	3,673.6	12.6
Stumps[e]	117.2	125.0	242.2	7.5
Tops - growing stock	2,343.4	1,590.5	3,933.9	8.4
Tops - rough and rotten	199.7	375.9	575.6	12.6
All nongrowing stock	4,802.2	5,374.5	10,176.7	6.0
All classes	11,524.4	9,478.4	21,002.8	6.5
Sampling error (percent)	12	9	6.5	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.
[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.
[c]Includes entire tree above a 1-foot stump height.
[d]Includes entire tree above the ground.
[e]Of all trees 5.0 inches dbh and larger.

Table 12.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Oxford County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	13,971.7	9,326.5	23,298.2	8
Upper stem	1,942.0	2,363.2	4,305.2	7
Total	15,913.7	11,689.7	27,603.4	7
Poletimber trees	9,689.5	17,535.4	27,224.9	5
All growing stock	25,603.2	29,225.1	54,828.3	5
Rough cull trees[b]	1,464.0	3,625.9	5,089.9	10
Rotten cull trees[b]	464.7	2,293.0	2,757.7	14
Salvable dead trees[c]	1,058.6*	463.0	1,521.6	21
Saplings[d]	4,515.2	8,724.8	13,240.0	12
Stumps[e]	552.0	845.3	1,397.3	4
Tops - growing stock	9,846.4	11,294.9	21,141.3	4
Tops - rough and rotten	731.9	2,296.5	3,028.4	8
All nongrowing stock	18,632.8	29,543.4	48,176.2	4
All classes	44,236.0	58,768.5	103,004.5	3.7
Sampling error (percent)	9	7	3.7	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.
[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.
[c]Includes entire tree above a 1-foot stump height.
[d]Includes entire tree above the ground.
[e]Of all trees 5.0 inches dbh and larger.

Table 13.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Penobscot County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	24,298.1	11,099.0	35,397.1	6
Upper stem	3,428.7	2,890.4	6,319.1	6
Total	27,726.8	13,989.4	41,716.2	6
Poletimber trees	18,976.7	18,779.1	37,755.8	5
All growing stock	46,703.5	32,768.5	79,472.0	4
Rough cull trees[b]	4,978.2	7,367.3	12,345.5	8
Rotten cull trees[b]	1,485.0	3,950.4	5,435.4	10
Salvable dead trees[c]	2,383.5	1,109.4	3,492.9	10
Saplings[d]	12,422.2	10,962.4	23,384.6	8
Stumps[e]	1,291.1	1,051.5	2,342.6	3
Tops - growing stock	18,125.3	12,592.8	30,718.1	4
Tops - rough and rotten	2,588.2	4,513.7	7,101.9	6
All nongrowing stock	43,273.5	41,547.5	84,821.0	3
All classes	89,977.0	74,316.0	164,293.0	3.1
Sampling error (percent)	5	6	3.1	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.
[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.
[c]Includes entire tree above a 1-foot stump height.
[d]Includes entire tree above the ground.
[e]Of all trees 5.0 inches dbh and larger.

Table 14.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Piscataquis County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	36,005.4	16,331.2	52,336.6	5
Upper stem	5,052.0	3,984.4	9,036.4	5
Total	41,057.4	20,315.6	61,373.0	5
Poletimber trees	30,402.4	18,131.4	48,533.8	5
All growing stock	71,459.8	38,447.0	109,906.8	4
Rough cull trees[b]	2,630.4	3,581.1	6,211.5	9
Rotten cull trees[b]	3,232.1	5,056.3	8,288.4	11
Salvable dead trees[c]	3,408.5	1,324.6	4,733.1	10
Saplings[d]	17,727.2	7,440.5	25,167.7	8
Stumps[e]	1,776.6	1,142.5	2,919.1	3
Tops - growing stock	27,891.4	14,194.0	42,085.4	4
Tops - rough and rotten	2,306.6	3,154.8	5,461.4	7
All nongrowing stock	58,972.8	35,893.8	94,866.6	3
All classes	130,432.6	74,340.8	204,773.4	3.2
Sampling error (percent)	5	6	3.2	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.
[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.
[c]Includes entire tree above a 1-foot stump height.
[d]Includes entire tree above the ground.
[e]Of all trees 5.0 inches dbh and larger.

Table 15.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Sagadahoc County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	1,662.8*	557.7*	2,220.5	21
Upper stem	215.6*	141.0	356.6	17
Total	1,878.4	698.7*	2,577.1	20
Poletimber trees	557.2	1,523.7	2,080.9	14
All growing stock	2,435.6	2,222.4	4,658.0	13
Rough cull trees[b]	465.5	395.6	861.1	21
Rotten cull trees[b]	134.4**	59.9*	194.3**	66
Salvable dead trees[c]	93.3**	28.9**	122.2*	44
Saplings[d]	405.4*	555.0*	960.4	22
Stumps[e]	47.9	62.0	109.9	11
Tops - growing stock	863.9	895.8	1,759.7	12
Tops - rough and rotten	183.0	170.7*	353.7	20
All nongrowing stock	2,193.4	2,167.9	4,361.3	11
All classes	4,629.0	4,390.3	9,019.3	10.6
Sampling error (percent)	18	15	10.6	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.
[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.
[c]Includes entire tree above a 1-foot stump height.
[d]Includes entire tree above the ground.
[e]Of all trees 5.0 inches dbh and larger.

Table 16.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Somerset County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	30,011.1	19,714.8	49,725.9	5
Upper stem	4,433.6	4,845.9	9,279.5	5
Total	34,444.7	24,560.7	59,005.4	5
Poletimber trees	29,837.8	25,489.4	55,327.2	4
All growing stock	64,282.5	50,050.1	114,332.6	3
Rough cull trees[b]	3,064.0	6,592.2	9,656.2	9
Rotten cull trees[b]	1,231.4	4,780.5	6,011.9	9
Salvable dead trees[c]	3,725.3	1,876.6	5,601.9	10
Saplings[d]	15,993.4	11,932.5	27,925.9	8
Stumps[e]	1,610.1	1,461.3	3,071.4	3
Tops - growing stock	25,690.2	18,856.7	44,546.9	3
Tops - rough and rotten	1,788.2	4,175.7	5,963.9	6
All nongrowing stock	53,102.6	49,675.5	102,778.1	3
All classes	117,385.1	99,725.6	217,110.7	2.8
Sampling error (percent)	5	5	2.8	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.
[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.
[c]Includes entire tree above a 1-foot stump height.
[d]Includes entire tree above the ground.
[e]Of all trees 5.0 inches dbh and larger.

Table 17.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Waldo County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	2,887.7	1,565.4	4,453.1	10.8
Upper stem	405.3	425.4	830.7	10.5
Total	3,293.0	1,990.8	5,283.8	10.7
Poletimber trees	2,512.6	5,326.4	7,839.0	6.5
All growing stock	5,805.6	7,317.2	13,122.8	6.3
Rough cull trees[b]	833.9	1,425.8	2,259.7	10.3
Rotten cull trees[b]	171.3	705.4	876.7	15.2
Salvable dead trees[c]	126.1	111.4	237.5	25.4
Saplings[d]	3,085.6	3,793.4	6,879.0	10.2
Stumps[e]	153.1	221.8	374.9	5.8
Tops - growing stock	2,280.9	2,993.5	5,274.4	6.0
Tops - rough and rotten	363.5	837.6	1,201.1	9.0
All nongrowing stock	7,014.4	10,088.9	17,103.3	5.6
All classes	12,820.0	17,406.1	30,226.1	5.0
Sampling error (percent)	9	7	5.0	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.

[c]Includes entire tree above a 1-foot stump height.

[d]Includes entire tree above the ground.

[e]Of all trees 5.0 inches dbh and larger.

Table 18.--Net aboveground tree biomass of all trees on timberland by class of material and species group, Washington County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	15,181.8	5,422.7	20,604.5	7
Upper stem	2,209.4	1,442.6	3,652.0	8
Total	17,391.2	6,865.3	24,256.5	7
Poletimber trees	13,216.7	10,313.1	23,529.8	6
All growing stock	30,607.9	17,178.4	47,786.3	5
Rough cull trees[b]	3,990.9	2,566.6	6,557.5	8
Rotten cull trees[b]	1,365.3	2,287.8	3,653.1	11
Salvable dead trees[c]	1,628.7	1,229.3	2,858.0	16
Saplings[d]	14,776.0	12,164.2	26,940.2	9
Stumps[e]	869.1	538.6	1,407.7	4
Tops - growing stock	12,073.9	6,806.2	18,880.1	5
Tops - rough and rotten	2,359.7	1,920.7	4,280.4	6
All nongrowing stock	37,063.6	27,513.4	64,577.0	4
All classes	67,671.5	44,691.8	112,363.3	3.6
Sampling error (percent)	6	8	3.6	

[a] Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b] Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.

[c] Includes entire tree above a 1-foot stump height.

[d] Includes entire tree above the ground.

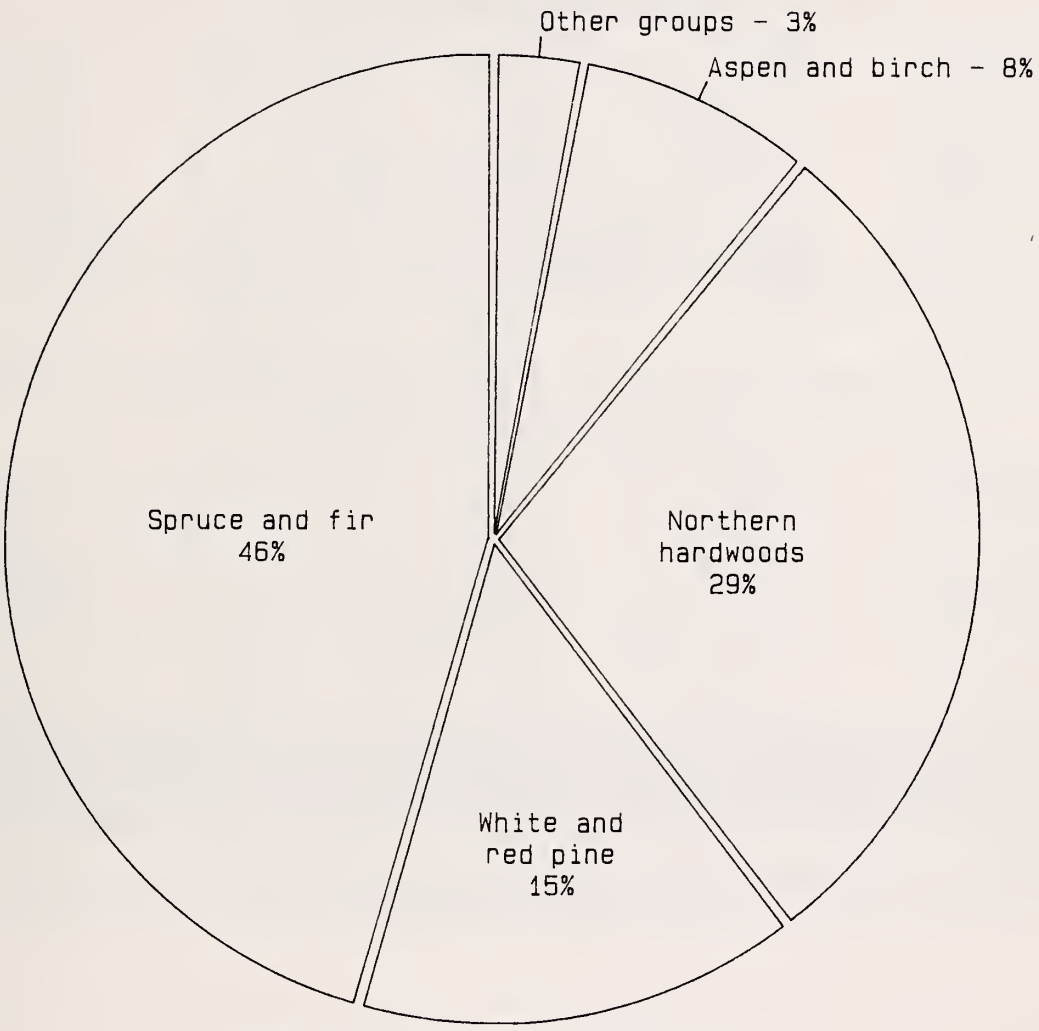
[e] Of all trees 5.0 inches dbh and larger.

Table 19.--Net aboveground tree biomass of all trees on timberland by class of material and species group, York County, Maine, 1982

Class of material	Species group		All species	Sampling error[a]
	Softwoods	Hardwoods		
	Thousand green tons			Percent
Sawtimber trees:				
Sawlog portion	10,558.4	2,623.0	13,181.4	9
Upper stem	1,238.9	655.6	1,894.5	8
Total	11,797.3	3,278.6	15,075.9	9
Poletimber trees	2,050.0	6,137.3	8,187.3	6
All growing stock	13,847.3	9,415.9	23,263.2	6
Rough cull trees[b]	2,392.7*	1,186.1	3,578.8	19
Rotten cull trees[b]	331.7	1,226.7	1,558.4	12
Salvable dead trees[c]	129.8*	32.3*	162.1*	30
Saplings[d]	2,160.5	7,313.5	9,474.0	10
Stumps[e]	270.6	293.7	564.3	5
Tops - growing stock	4,667.8	3,789.6	8,457.4	5
Tops - rough and rotten	897.6	952.7	1,850.3	11
All nongrowing stock	10,850.7	14,794.6	25,645.3	5
All classes	24,698.0	24,210.5	48,908.5	4.3
Sampling error (percent)	8	6	4.3	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.
[b]Main stem portion of trees 5.0 inches dbh and larger between a 1-foot stump height and a 4-inch top dob.
[c]Includes entire tree above a 1-foot stump height.
[d]Includes entire tree above the ground.
[e]Of all trees 5.0 inches dbh and larger.

ABOVEGROUND BIOMASS OF ALL LIVE TREES



Distribution of Biomass
by Forest-type Group

Table 20.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	173,042.9	45,591.3	3,516.3*	.0	222,150.5	6
Spruce/fir	418,558.6	235,171.0	20,542.9	69.0**	674,341.5	3
Loblolly/shortleaf	245.1**	.0	37.1**	.0	282.2	88
Oak/pine	876.0**	1,648.2*	.0	.0	2,524.2	44
Oak/hickory	10,401.3	11,914.5	1,240.7*	.0	23,556.5	15
Elm/ash/red maple	2,670.0*	9,773.2*	938.0*	.0	13,381.2	22
Northern hardwoods	255,248.9	149,874.2	16,496.3	.0	421,619.4	4
Aspen/birch	19,105.4	83,726.7	9,341.1	.0	112,173.2	9
Total, all groups	880,148.2	537,699.1	52,112.4	69.0	1,470,028.7	1.0
Sampling error (percent)	2	3	9	67	1.0	
	Green tons per acre[b]					
White/red pine	112.6	81.9	34.8	.0	101.2	
Spruce/fir	102.5	81.9	25.9	3.0	86.8	
Loblolly/shortleaf	59.8	.0	8.8	.0	34.0	
Oak/pine	56.5	79.6	.0	.0	69.7	
Oak/hickory	98.5	78.3	25.5	.0	76.9	
Elm/ash/red maple	58.0	68.9	18.6	.0	56.2	
Northern hardwoods	99.8	79.0	30.8	.0	84.3	
Aspen/birch	113.4	87.8	24.4	.0	74.5	
All groups	103.3	81.5	27.2	2.1	86.2	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 21.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Androscoggin County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	6,278.1*	3,078.9*	.0	.0	9,357.0	19
Spruce/fir	237.0**	297.6**	175.1**	.0	709.7	57
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	442.3**	.0	.0	442.3	100
Oak/hickory	.0	1,017.6**	.0	.0	1,017.6	59
Elm/ash/red maple	.0	320.6**	.0	.0	320.6	100
Northern hardwoods	1,675.4*	1,520.9*	780.4**	.0	3,976.7	29
Aspen/birch	392.5**	2,305.4*	128.8**	.0	2,826.7	39
Total, all groups	8,583.0	8,983.3	1,084.3	.0	18,650.6	6.3
Sampling error (percent)	19	17	56	0	6.3	
	Green tons per acre[b]					
White/red pine	112.1	90.0	.0	.0	103.7	
Spruce/fir	55.1	69.2	40.7	.0	55.0	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	102.9	.0	.0	102.9	
Oak/hickory	.0	79.5	.0	.0	79.5	
Elm/ash/red maple	.0	74.6	.0	.0	74.6	
Northern hardwoods	77.9	88.4	37.7	.0	66.9	
Aspen/birch	91.3	106.7	30.0	.0	93.6	
All groups	99.7	91.0	37.0	.0	87.1	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 22.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Aroostook County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	2,697.9**	286.2**	.0	.0	2,984.1	48
Spruce/fir	132,416.7	59,180.8	4,153.3*	4.3**	195,755.1	5
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	.0	.0	.0	.0	.0	0
Elm/ash/red maple	293.2**	2,736.4**	393.4**	.0	3,423.0	43
Northern hardwoods	66,814.4	17,442.9	2,112.8*	.0	86,370.1	9
Aspen/birch	4,834.3*	21,296.4	1,815.6*	.0	27,946.3	16
Total, all groups	207,056.5	100,942.7	8,475.1	4.3	316,478.6	1.9
Sampling error (percent)	5	8	17	100	1.9	
	Green tons per acre[b]					
White/red pine	79.8	33.7	.0	.0	70.5	
Spruce/fir	99.2	81.7	24.4	.5	87.5	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	.0	.0	.0	.0	.0	
Elm/ash/red maple	33.3	81.4	22.7	.0	57.3	
Northern hardwoods	96.2	77.0	18.9	.0	83.6	
Aspen/birch	114.3	81.5	19.6	.0	70.6	
All groups	97.9	80.5	21.6	.5	84.0	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 23.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Cumberland County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	20,632.9	5,214.3*	684.5*	.0	26,531.7	9
Spruce/fir	204.3**	329.0**	.0	27.4**	560.7	69
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	607.4**	.0	.0	607.4	72
Oak/hickory	500.5**	1,896.7*	.0	.0	2,397.2	41
Elm/ash/red maple	.0	68.6**	22.4**	.0	91.0	79
Northern hardwoods	1,941.3*	3,449.8*	388.5**	.0	5,779.6	23
Aspen/birch	.0	348.3**	.0	.0	348.3	71
Total, all groups	23,279.0	11,914.1	1,095.4	27.4	36,315.9	4.6
Sampling error (percent)	10	16	38	100	4.6	
	Green tons per acre[b]					
White/red pine	107.2	102.8	32.9	.0	100.5	
Spruce/fir	51.1	78.3	.0	5.5	42.5	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	73.2	.0	.0	73.2	
Oak/hickory	116.4	90.8	.0	.0	95.1	
Elm/ash/red maple	.0	16.3	5.6	.0	11.1	
Northern hardwoods	92.0	69.0	46.3	.0	72.7	
Aspen/birch	.0	42.5	.0	.0	42.5	
All groups	105.0	81.3	33.0	5.5	89.3	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 24.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Franklin County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	6,170.7*	.0	.0	.0	6,170.7	48
Spruce/fir	15,892.3*	17,838.8	759.9**	.0	34,491.0	15
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	.0	.0	.0	.0	.0	0
Elm/ash/red maple	.0	.0	.0	.0	.0	0
Northern hardwoods	18,735.1	19,512.1	795.2**	.0	39,042.4	12
Aspen/birch	1,129.2**	8,545.0*	369.6**	.0	10,043.8	31
Total, all groups	41,927.3	45,895.9	1,924.7	.0	89,747.9	3.6
Sampling error (percent)	13	11	46	0	3.6	
	Green tons per acre[b]					
White/red pine	118.4	.0	.0	.0	118.4	
Spruce/fir	109.2	87.5	18.9	.0	88.5	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	.0	.0	.0	.0	.0	
Elm/ash/red maple	.0	.0	.0	.0	.0	
Northern hardwoods	102.3	76.2	42.8	.0	85.2	
Aspen/birch	107.5	100.8	19.3	.0	87.7	
All groups	107.1	84.2	24.6	.0	88.5	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 25.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Hancock County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	9,297.0*	675.7**	452.8**	.0	10,425.5	32
Spruce/fir	20,017.8*	14,076.8**	1,173.2**	37.3**	35,305.1	12
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	334.1**	.0	302.5**	.0	636.6	100
Elm/ash/red maple	.0	461.2**	.0	.0	461.2	100
Northern hardwoods	7,337.6*	4,936.0*	1,674.2**	.0	13,947.8	23
Aspen/birch	.0	5,337.2**	198.1**	.0	5,535.3	41
Total, all groups	36,986.5	25,486.9	3,800.8	37.3	66,311.5	5.1
Sampling error (percent)	13	15	41	100	5.1	
	Green tons per acre[b]					
White/red pine	124.8	73.4	49.2	.0	112.2	
Spruce/fir	106.1	84.2	31.3	3.8	87.6	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	36.3	.0	31.2	.0	33.7	
Elm/ash/red maple	.0	48.5	.0	.0	48.5	
Northern hardwoods	98.4	75.8	36.2	.0	75.0	
Aspen/birch	.0	94.8	20.4	.0	83.9	
All groups	106.6	82.9	33.8	3.8	85.4	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 26.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Kennebec County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	14,912.2	2,136.2*	94.3**	.0	17,142.7	13
Spruce/fir	.0	1,974.0*	.0	.0	1,974.0	44
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	521.0**	.0	.0	521.0	100
Oak/hickory	531.5**	939.6**	.0	.0	1,471.1	52
Elm/ash/red maple	481.3**	220.2**	1.8**	.0	703.3	74
Northern hardwoods	3,484.4*	5,934.5	254.0**	.0	9,672.9	18
Aspen/birch	500.2**	3,995.0*	.0	.0	4,495.2	28
Total, all groups	19,909.6	15,720.5	350.1	.0	35,980.2	4.5
Sampling error (percent)	12	12	65	0	4.5	
	Green tons per acre[b]					
White/red pine	100.7	76.3	11.1	.0	92.9	
Spruce/fir	.0	99.2	.0	.0	99.2	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	130.3	.0	.0	130.3	
Oak/hickory	132.9	78.3	.0	.0	91.9	
Elm/ash/red maple	117.4	55.1	.5	.0	58.1	
Northern hardwoods	96.8	87.3	31.8	.0	86.4	
Aspen/birch	125.1	82.9	.0	.0	86.1	
All groups	101.5	85.4	17.1	.0	89.8	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 27.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Knox County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	2,457.9*	354.6**	.0	.0	2,812.5	40
Spruce/fir	3,660.2*	2,150.4*	183.7**	.0	5,994.3	20
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	1,008.1**	381.5**	84.3**	.0	1,473.9	54
Elm/ash/red maple	.0	.0	.0	.0	.0	0
Northern hardwoods	3,095.5*	878.8**	38.0**	.0	4,012.3	31
Aspen/birch	.0	892.9**	159.0**	.0	1,051.9	51
Total, all groups	10,221.7	4,658.2	465.0	.0	15,344.9	7.2
Sampling error (percent)	15	25	47	0	7.2	
	Green tons per acre[b]					
White/red pine	118.2	84.4	.0	.0	112.5	
Spruce/fir	118.1	83.0	21.9	.0	91.8	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	121.5	90.8	20.1	.0	88.3	
Elm/ash/red maple	.0	.0	.0	.0	.0	
Northern hardwoods	106.4	105.9	9.0	.0	96.4	
Aspen/birch	.0	70.9	37.9	.0	62.6	
All groups	114.6	84.4	22.1	.0	92.8	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 28.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Lincoln County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	7,958.3*	1,771.0*	167.3**	.0	9,896.6	17
Spruce/fir	2,703.2**	1,088.1**	611.6*	.0	4,402.9	33
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	2,222.7*	598.7**	128.3**	.0	2,949.7	32
Elm/ash/red maple	.0	855.4**	.0	.0	855.4	59
Northern hardwoods	857.3**	1,211.6**	287.2**	.0	2,356.1	37
Aspen/birch	.0	344.9**	.0	.0	344.9	100
Total, all groups	13,741.5	5,869.7	1,194.4	.0	20,805.6	6.5
Sampling error (percent)	14	21	32	0	6.5	
	Green tons per acre[b]					
White/red pine	121.9	75.4	21.7	.0	102.6	
Spruce/fir	175.5	96.3	26.5	.0	88.4	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	97.5	78.8	32.9	.0	86.0	
Elm/ash/red maple	.0	71.9	.0	.0	71.9	
Northern hardwoods	107.2	103.6	35.5	.0	84.8	
Aspen/birch	.0	90.8	.0	.0	90.8	
All groups	123.2	84.1	27.9	.0	92.8	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 29.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Oxford County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	16,456.8*	9,861.7*	.0	.0	26,318.5	19
Spruce/fir	10,145.2*	5,990.7*	1,325.2**	.0	17,461.1	22
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	735.6**	.0	.0	.0	735.6	100
Oak/hickory	.0	2,081.5**	.0	.0	2,081.5	62
Elm/ash/red maple	.0	128.6**	.0	.0	128.6	100
Northern hardwoods	26,014.6	18,992.5	2,016.3**	.0	47,023.4	12
Aspen/birch	.0	6,920.6*	777.8**	.0	7,698.4	32
Total, all groups	53,352.2	43,975.6	4,119.3	.0	101,447.1	3.7
Sampling error (percent)	12	11	35	0	3.7	
	Green tons per acre[b]					
White/red pine	96.6	84.4	.0	.0	91.6	
Spruce/fir	95.3	70.6	31.0	.0	74.6	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	69.4	.0	.0	.0	69.4	
Oak/hickory	.0	65.5	.0	.0	65.5	
Elm/ash/red maple	.0	23.8	.0	.0	23.8	
Northern hardwoods	111.3	78.3	66.8	.0	92.8	
Aspen/birch	.0	81.5	25.9	.0	67.0	
All groups	102.4	77.6	40.0	.0	85.2	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 30.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Penobscot County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	25,901.9	6,397.9*	568.8**	.0	32,868.6	18
Spruce/fir	41,590.2	23,690.1	2,113.5*	.0	67,393.8	9
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	.0	.0	.0	.0	.0	0
Elm/ash/red maple	1,341.8**	1,390.7**	114.0**	.0	2,846.5	53
Northern hardwoods	20,023.2	19,910.8	511.6**	.0	40,445.6	13
Aspen/birch	2,184.8**	14,270.2	679.1**	.0	17,134.1	23
Total, all groups	91,041.9	65,659.7	3,987.0	.0	160,688.6	3.2
Sampling error (percent)	8	9	35	0	3.2	
	Green tons per acre[b]					
White/red pine	118.1	74.1	59.3	.0	104.3	
Spruce/fir	98.3	72.8	37.3	.0	83.7	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	.0	.0	.0	.0	.0	
Elm/ash/red maple	70.3	72.4	11.9	.0	59.4	
Northern hardwoods	95.3	77.5	17.6	.0	80.1	
Aspen/birch	113.8	88.1	36.7	.0	85.8	
All groups	102.2	77.3	32.3	.0	85.8	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 31.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Piscataquis County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	7,734.6*	2,021.4**	.0	.0	9,756.0	36
Spruce/fir	87,491.6	32,825.3	4,859.2*	.0	125,176.1	7
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	1,284.3**	.0	.0	.0	1,284.3	100
Elm/ash/red maple	.0	616.1**	.0	.0	616.1	100
Northern hardwoods	37,888.2	16,099.7	1,461.0**	.0	55,448.9	12
Aspen/birch	851.0**	4,715.4**	2,013.4**	.0	7,579.8	34
Total, all groups	135,249.7	56,277.9	8,333.6	.0	199,861.2	3.2
Sampling error (percent)	7	12	23	0	3.2	
	Green tons per acre[b]					
White/red pine	119.4	64.6	.0	.0	101.5	
Spruce/fir	108.1	89.0	27.0	.0	92.2	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	122.3	.0	.0	.0	122.3	
Elm/ash/red maple	.0	58.7	.0	.0	58.7	
Northern hardwoods	97.2	78.7	22.7	.0	84.2	
Aspen/birch	81.0	89.6	48.6	.0	72.5	
All groups	105.3	84.2	29.2	.0	89.3	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 32.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Sagadahoc County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	3,920.0*	463.9**	53.9**	.0	4,437.8	25
Spruce/fir	192.5**	.0	.0	.0	192.5	100
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	140.4**	.0	.0	.0	140.4	100
Oak/hickory	595.1**	316.4**	.0	.0	911.5	58
Elm/ash/red maple	.0	.0	162.4**	.0	162.4	100
Northern hardwoods	1,468.8*	1,103.3**	3.0**	.0	2,575.1	34
Aspen/birch	.0	474.7**	.0	.0	474.7	100
Total, all groups	6,316.8	2,358.3	219.3	.0	8,894.4	10.6
Sampling error (percent)	18	35	78	0	10.6	
	Green tons per acre[b]					
White/red pine	95.4	36.2	14.2	.0	76.9	
Spruce/fir	43.8	.0	.0	.0	43.8	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	29.3	.0	.0	.0	29.3	
Oak/hickory	64.0	70.3	.0	.0	66.1	
Elm/ash/red maple	.0	.0	36.1	.0	36.1	
Northern hardwoods	82.1	83.6	.8	.0	73.6	
Aspen/birch	.0	105.5	.0	.0	105.5	
All groups	81.5	67.4	18.0	.0	71.3	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 33.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Somerset County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	10,621.2*	5,973.0*	386.7**	.0	16,980.9	26
Spruce/fir	69,127.6	40,050.8	2,677.9*	.0	111,856.3	8
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	.0	979.2**	.0	.0	979.2	100
Elm/ash/red maple	435.4**	1,378.2**	.0	.0	1,813.6	79
Northern hardwoods	49,847.4	16,982.6	2,151.7*	.0	68,981.7	10
Aspen/birch	3,747.1**	6,651.5*	337.4**	.0	10,736.0	31
Total, all groups	133,778.7	72,015.3	5,553.7	.0	211,347.7	2.8
Sampling error (percent)	6	10	25	0	2.8	
	Green tons per acre[b]					
White/red pine	128.3	82.5	18.7	.0	96.5	
Spruce/fir	105.6	83.9	21.6	.0	89.1	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	.0	94.2	.0	.0	94.2	
Elm/ash/red maple	41.9	133.8	.0	.0	87.6	
Northern hardwoods	104.3	86.2	29.7	.0	92.3	
Aspen/birch	119.7	91.7	16.3	.0	86.2	
All groups	106.4	85.8	23.3	.0	90.5	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 34.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Waldo County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	3,712.5*	1,222.9*	157.8**	.0	5,093.2	28
Spruce/fir	4,533.7*	4,875.4*	260.6**	.0	9,669.7	18
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	539.2**	364.3**	161.1**	.0	1,064.6	63
Elm/ash/red maple	.0	238.4**	.0	.0	238.4	75
Northern hardwoods	3,233.8*	6,915.7*	981.6*	.0	11,131.1	16
Aspen/birch	.0	2,519.1*	263.4**	.0	2,782.5	36
Total, all groups	12,019.2	16,135.8	1,824.5	.0	29,979.5	5.1
Sampling error (percent)	17	11	27	0	5.1	
	Green tons per acre[b]					
White/red pine	114.2	76.0	38.5	.0	96.6	
Spruce/fir	111.9	80.9	32.6	.0	88.9	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	134.8	91.1	40.3	.0	88.7	
Elm/ash/red maple	.0	31.0	.0	.0	31.0	
Northern hardwoods	115.1	85.9	30.1	.0	78.8	
Aspen/birch	.0	78.5	34.7	.0	70.1	
All groups	114.4	80.4	32.4	.0	82.8	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 35.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, Washington County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	7,814.1*	2,119.6**	.0	.0	9,933.7	34
Spruce/fir	29,910.4	30,492.8	2,249.7*	.0	62,652.9	9
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	.0	1,061.2**	64.0**	.0	1,125.2	95
Elm/ash/red maple	.0	1,358.8**	244.0**	.0	1,602.8	63
Northern hardwoods	11,745.8*	9,739.6*	2,359.9*	.0	23,845.3	19
Aspen/birch	4,738.5**	3,674.5**	1,858.9**	.0	10,271.9	32
Total, all groups	54,208.8	48,446.5	6,776.5	.0	109,431.8	3.6
Sampling error (percent)	11	11	26	0	3.6	
	Green tons per acre[b]					
White/red pine	105.9	100.0	.0	.0	104.6	
Spruce/fir	94.2	78.1	23.2	.0	77.9	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	.0	100.1	5.8	.0	52.1	
Elm/ash/red maple	.0	64.4	22.2	.0	49.9	
Northern hardwoods	101.3	70.4	36.8	.0	74.9	
Aspen/birch	112.3	114.5	17.2	.0	56.3	
All groups	98.7	79.0	23.3	.0	75.3	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

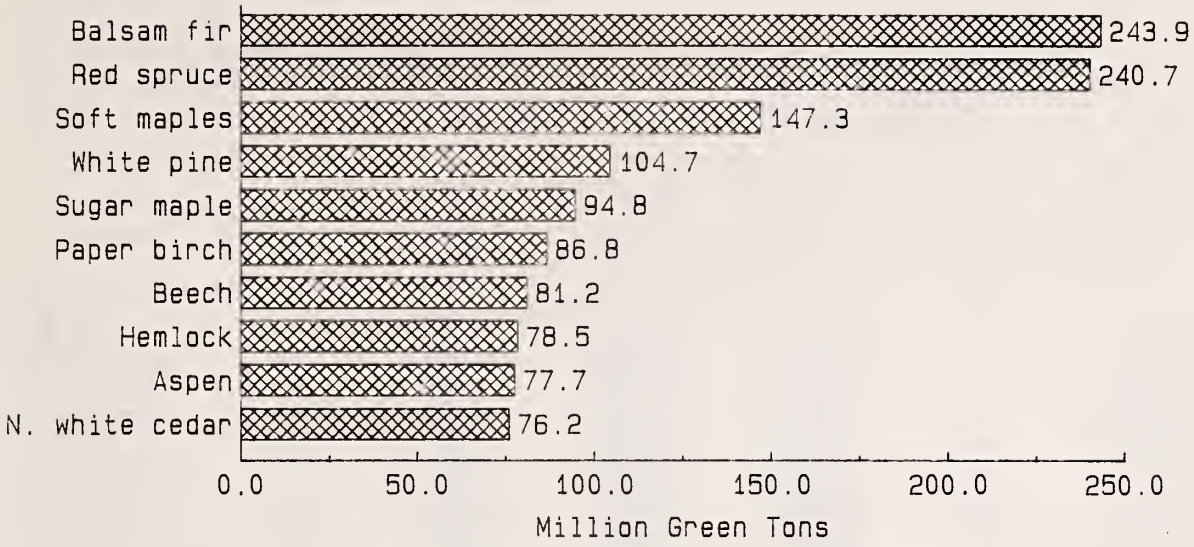
[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 36.--Net aboveground tree biomass of all live trees on timberland by forest-type group and stand-size class, York County, Maine, 1982

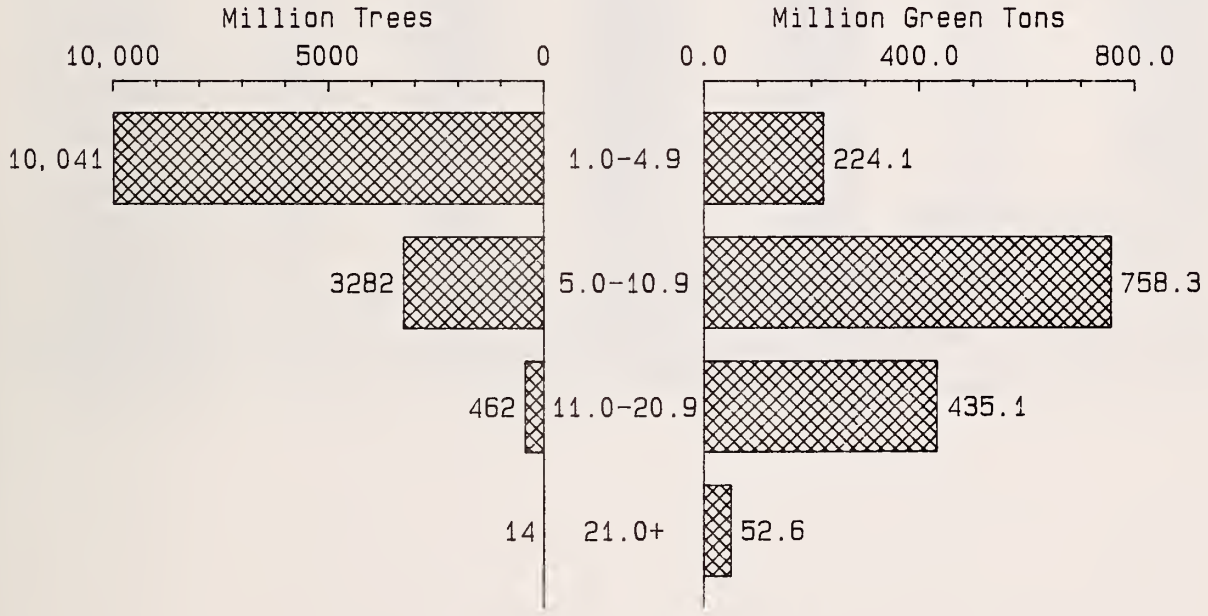
Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	26,476.8	4,014.0*	950.2**	.0	31,441.0	10
Spruce/fir	435.9**	310.4**	.0	.0	746.3	71
Loblolly/shortleaf	245.1**	.0	37.1**	.0	282.2	88
Oak/pine	.0	77.5**	.0	.0	77.5	100
Oak/hickory	3,385.8*	2,277.8*	500.5**	.0	6,164.1	23
Elm/ash/red maple	118.3**	.0	.0	.0	118.3	100
Northern hardwoods	1,086.1**	5,243.4*	680.9**	.0	7,010.4	21
Aspen/birch	727.8**	1,435.6**	740.0*	.0	2,903.4	37
Total, all groups	32,475.8	13,358.7	2,908.7	.0	48,743.2	4.3
Sampling error (percent)	9	14	29	0	4.3	
	Green tons per acre[b]					
White/red pine	126.7	96.3	56.9	.0	117.6	
Spruce/fir	106.3	73.9	.0	.0	89.9	
Loblolly/shortleaf	58.4	.0	9.0	.0	34.0	
Oak/pine	.0	18.5	.0	.0	18.5	
Oak/hickory	101.4	68.2	31.9	.0	74.7	
Elm/ash/red maple	32.0	.0	.0	.0	32.0	
Northern hardwoods	65.0	84.6	50.8	.0	76.1	
Aspen/birch	173.3	86.5	28.1	.0	61.6	
All groups	118.0	82.4	38.2	.0	94.9	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.



Aboveground Tree Biomass
of the Top Ten Species



Number of Trees
and Aboveground Tree Biomass
by Diameter Group

Table 37.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	3,043,298	784,001	32,293	16	3,859,608
Tamarack	42,070	15,742	2,983	25	60,820
White spruce	138,765	79,362	7,676	42	225,845
Black spruce	186,131	85,703	2,989	0	274,823
Red spruce	854,501	551,021	79,499	738	1,485,759
Red pine	3,621	3,964	2,335	15	9,935
White pine	210,662	100,903	41,133	3,939	356,637
Northern white-cedar	441,434	281,394	59,809	959	783,596
Hemlock	243,237	141,589	36,018	1,141	421,985
Other softwoods	840	1,185	389	0	2,414
Total softwoods	5,164,559	2,044,864	265,124	6,875	7,481,422
Sugar maple	425,379	115,565	34,719	2,985	578,648
Soft maples	1,191,989	334,247	42,793	846	1,569,875
Yellow birch	322,646	94,612	30,138	2,234	449,630
Paper birch	491,161	199,387	15,686	83	706,317
Gray birch	242,533	33,824	469	0	276,826
Beech	640,723	129,750	27,728	394	798,595
White ash	102,516	30,070	4,558	119	137,263
Black ash	83,370	25,713	2,975	29	112,087
Aspen	304,319	163,295	25,554	200	493,368
White oaks	16,876	4,206	314	41	21,437
Red oaks	110,543	43,859	8,710	329	163,441
Basswood	13,979	1,955	792	4	16,730
Elm	17,025	4,628	900	119	22,672
Other commercial hardwoods	67,080	9,683	758	41	77,562
Noncommercial hardwoods	846,249	46,485	658	23	893,415
Total hardwoods	4,876,388	1,237,279	196,752	7,447	6,317,866
Total, all species	10,040,947	3,282,143	461,876	14,322	13,799,288

Table 37.--Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	57,817.6	161,393.7	24,657.2	42.6	243,911.1
Tamarack	1,378.1	3,211.1	2,431.3	61.0	7,081.5
White spruce	4,843.0	18,587.8	6,977.6	133.3	30,541.7
Black spruce	5,881.4	17,704.6	2,670.4	.0	26,256.4
Red spruce	24,957.3	137,884.2	75,560.1	2,339.1	240,740.7
Red pine	130.4	1,517.1	2,764.1	22.4	4,434.0
White pine	5,288.7	27,212.4	52,275.1	19,946.5	104,722.7
Northern white-cedar	11,247.3	39,877.0	24,191.9	923.5	76,239.7
Hemlock	6,386.9	34,479.4	34,196.3	3,453.8	78,516.4
Other softwoods	28.5	211.7	173.5	.0	413.7
Total softwoods	117,959.2	442,079.0	225,897.5	26,922.2	812,857.9
Sugar maple	9,601.6	32,517.0	42,167.1	10,474.9	94,760.6
Soft maples	24,842.7	78,459.7	41,190.1	2,775.1	147,267.6
Yellow birch	6,476.4	27,934.2	33,332.6	7,238.0	74,981.2
Paper birch	12,391.3	55,416.7	18,526.3	483.8	86,818.1
Gray birch	7,707.7	5,677.5	443.0	.0	13,828.2
Beech	15,207.2	36,822.1	28,069.9	1,060.6	81,159.8
White ash	2,235.6	8,022.0	4,584.8	479.2	15,321.6
Black ash	2,236.4	5,805.0	2,720.5	77.3	10,839.2
Aspen	7,346.4	44,032.9	25,583.1	703.3	77,665.7
White oaks	568.1	846.4	423.6	183.4	2,021.5
Red oaks	2,789.1	11,201.2	9,529.3	1,368.3	24,887.9
Basswood	160.1	290.3	389.3	2.5	842.2
Elm	506.3	1,086.1	1,014.0	661.2	3,267.6
Other commercial hardwoods	1,312.2	2,095.3	655.8	82.6	4,145.9
Noncommercial hardwoods	12,805.0	5,983.6	528.8	46.3	19,363.7
Total hardwoods	106,186.1	316,190.0	209,158.2	25,636.5	657,170.8
Total, all species	224,145.3	758,269.0	435,055.7	52,558.7	1,470,028.7

Table 38.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Androscoggin County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	32,925	3,351	150	0	36,426
Tamarack	0	59	45	0	104
White spruce	0	30	0	0	30
Black spruce	0	0	0	0	0
Red spruce	863	643	62	0	1,568
Red pine	0	15	15	0	30
White pine	25,984	4,843	2,072	172	33,071
Northern white-cedar	0	15	0	0	15
Hemlock	1,725	3,228	773	0	5,726
Other softwoods	0	0	0	0	0
Total softwoods	61,497	12,184	3,117	172	76,970
Sugar maple	3,491	372	72	2	3,937
Soft maples	29,460	7,998	840	21	38,319
Yellow birch	1,729	182	30	0	1,941
Paper birch	8,712	1,620	56	0	10,388
Gray birch	5,180	1,033	45	0	6,258
Beech	8,720	590	72	0	9,382
White ash	6,043	901	0	0	6,944
Black ash	866	88	0	0	954
Aspen	6,990	6,261	278	0	13,529
White oaks	0	29	0	0	29
Red oaks	5,190	4,129	394	0	9,713
Basswood	0	0	0	0	0
Elm	863	58	0	0	921
Other commercial hardwoods	866	30	0	0	896
Noncommercial hardwoods	7,670	220	0	0	7,890
Total hardwoods	85,780	23,511	1,787	23	111,101
Total, all species	147,277	35,695	4,904	195	188,071

Table 38.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	533.1	715.5	105.4	.0	1,354.0
Tamarack	.0	8.1	34.6	.0	42.7
White spruce	.0	3.7	.0	.0	3.7
Black spruce	.0	.0	.0	.0	.0
Red spruce	10.1	151.2	46.5	.0	207.8
Red pine	.0	8.7	26.8	.0	35.5
White pine	643.1	1,185.5	2,696.6	814.0	5,339.2
Northern white-cedar	.0	2.7	.0	.0	2.7
Hemlock	90.3	758.8	787.9	.0	1,637.0
Other softwoods	.0	.0	.0	.0	.0
Total softwoods	1,276.6	2,834.2	3,697.8	814.0	8,622.6
Sugar maple	164.3	64.6	103.8	22.6	355.3
Soft maples	782.2	1,845.8	808.7	93.5	3,530.2
Yellow birch	57.9	30.6	44.7	.0	133.2
Paper birch	139.0	483.2	104.3	.0	726.5
Gray birch	170.7	166.2	33.4	.0	370.3
Beech	358.5	199.7	91.5	.0	649.7
White ash	84.0	213.1	.0	.0	297.1
Black ash	7.8	15.2	.0	.0	23.0
Aspen	92.4	1,562.5	264.3	.0	1,919.2
White oaks	.0	5.3	.0	.0	5.3
Red oaks	175.1	1,078.8	454.8	.0	1,708.7
Basswood	.0	.0	.0	.0	.0
Elm	53.7	14.3	.0	.0	68.0
Other commercial hardwoods	42.5	3.9	.0	.0	46.4
Noncommercial hardwoods	148.4	46.7	.0	.0	195.1
Total hardwoods	2,276.5	5,729.9	1,905.5	116.1	10,028.0
Total, all species	3,553.1	8,564.1	5,603.3	930.1	18,650.6

Table 39.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Aroostook County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	580,672	239,309	12,732	0	832,713
Tamarack	12,168	4,162	1,095	13	17,438
White spruce	47,801	31,681	4,193	42	83,717
Black spruce	62,971	45,737	814	0	109,522
Red spruce	117,608	109,054	19,756	181	246,599
Red pine	0	0	0	0	0
White pine	1,723	2,205	1,092	225	5,245
Northern white-cedar	180,515	103,859	26,640	469	311,483
Hemlock	15,534	7,170	2,919	256	25,879
Other softwoods	0	58	0	0	58
Total softwoods	1,018,992	543,235	69,241	1,186	1,632,654
Sugar maple	128,590	35,364	10,834	1,191	175,979
Soft maples	171,838	35,983	5,057	60	212,938
Yellow birch	56,611	16,520	5,942	321	79,394
Paper birch	83,644	28,659	1,327	10	113,640
Gray birch	1,723	177	0	0	1,900
Beech	78,838	21,978	9,779	178	110,773
White ash	12,000	1,916	294	18	14,228
Black ash	22,402	6,138	1,107	29	29,676
Aspen	87,452	43,843	7,641	120	139,056
White oaks	0	0	0	0	0
Red oaks	0	0	70	0	70
Basswood	3,499	59	0	0	3,558
Elm	3,456	1,036	121	8	4,621
Other commercial hardwoods	0	119	37	0	156
Noncommercial hardwoods	166,820	5,442	81	0	172,343
Total hardwoods	816,873	197,234	42,290	1,935	1,058,332
Total, all species	1,835,865	740,469	111,531	3,121	2,690,986

Table 39.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	13,931.9	51,277.8	9,591.3	.0	74,801.0
Tamarack	213.6	846.6	1,041.8	29.6	2,131.6
White spruce	1,571.0	7,903.1	3,575.0	133.3	13,182.4
Black spruce	1,745.4	9,421.5	682.9	.0	11,849.8
Red spruce	3,593.3	28,444.4	18,854.0	510.0	51,401.7
Red pine	.0	.0	.0	.0	.0
White pine	13.2	493.1	1,460.7	1,101.2	3,068.2
Northern white-cedar	4,517.5	15,267.2	10,973.7	484.6	31,243.0
Hemlock	597.0	1,705.3	2,747.8	697.8	5,747.9
Other softwoods	.0	18.3	.0	.0	18.3
Total softwoods	26,182.9	115,377.3	48,927.2	2,956.5	193,443.9
Sugar maple	2,919.6	9,543.3	14,097.3	4,283.0	30,843.2
Soft maples	3,823.1	8,094.4	5,162.9	73.6	17,154.0
Yellow birch	947.4	4,895.1	6,758.7	952.0	13,553.2
Paper birch	2,646.1	7,767.8	1,554.4	35.5	12,003.8
Gray birch	163.2	27.6	.0	.0	190.8
Beech	2,058.6	6,579.0	10,760.9	596.2	19,994.7
White ash	356.9	533.5	345.7	84.8	1,320.9
Black ash	346.4	1,511.4	1,049.7	77.3	2,984.8
Aspen	1,595.8	12,034.3	7,388.9	446.4	21,465.4
White oaks	.0	.0	.0	.0	.0
Red oaks	.0	.0	55.8	.0	55.8
Basswood	11.0	5.5	.0	.0	16.5
Elm	110.3	255.9	98.5	34.8	499.5
Other commercial hardwoods	.0	13.4	33.7	.0	47.1
Noncommercial hardwoods	2,108.7	702.5	93.8	.0	2,905.0
Total hardwoods	17,087.1	51,963.7	47,400.3	6,583.6	123,034.7
Total, all species	43,270.0	167,341.0	96,327.5	9,540.1	316,478.6

Table 40.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Cumberland County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	22,659	2,285	32	0	24,976
Tamarack	0	0	0	0	0
White spruce	0	0	0	0	0
Black spruce	0	28	14	0	42
Red spruce	13,946	1,037	98	0	15,081
Red pine	0	567	296	0	863
White pine	42,364	15,942	4,879	315	63,500
Northern white-cedar	0	0	0	0	0
Hemlock	16,052	7,734	2,705	15	26,506
Other softwoods	0	495	100	0	595
Total softwoods	95,021	28,088	8,124	330	131,563
Sugar maple	4,269	569	72	4	4,914
Soft maples	59,873	12,147	933	16	72,969
Yellow birch	1,686	1,093	156	6	2,941
Paper birch	7,596	3,321	281	15	11,213
Gray birch	11,797	2,057	26	0	13,880
Beech	17,020	4,125	540	5	21,690
White ash	5,085	1,372	92	0	6,549
Black ash	843	98	0	0	941
Aspen	5,836	2,083	61	0	7,980
White oaks	6,723	979	86	0	7,788
Red oaks	23,623	7,208	1,339	24	32,194
Basswood	1,713	68	0	0	1,781
Elm	0	174	18	0	192
Other commercial hardwoods	857	555	32	0	1,444
Noncommercial hardwoods	15,306	539	0	6	15,851
Total hardwoods	162,227	36,388	3,636	76	202,327
Total, all species	257,248	64,476	11,760	406	333,890

Table 40.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	247.4	411.7	23.0	.0	682.1
Tamarack	.0	.0	.0	.0	.0
White spruce	.0	.0	.0	.0	.0
Black spruce	.0	3.9	12.2	.0	16.1
Red spruce	169.1	274.3	83.1	.0	526.5
Red pine	.0	210.3	295.3	.0	505.6
White pine	1,078.0	4,427.7	5,989.6	1,376.8	12,872.1
Northern white-cedar	.0	.0	.0	.0	.0
Hemlock	267.0	1,980.0	2,650.4	48.7	4,946.1
Other softwoods	.0	87.9	48.5	.0	136.4
Total softwoods	1,761.5	7,395.8	9,102.1	1,425.5	19,684.9
Sugar maple	48.7	143.9	76.9	20.7	290.2
Soft maples	1,421.4	2,664.1	847.0	64.4	4,996.9
Yellow birch	51.1	263.7	144.6	8.9	468.3
Paper birch	202.9	850.2	293.2	60.4	1,406.7
Gray birch	427.9	372.8	28.1	.0	828.8
Beech	502.0	1,109.8	560.1	14.7	2,186.6
White ash	98.1	299.4	98.9	.0	496.4
Black ash	3.6	11.7	.0	.0	15.3
Aspen	109.9	504.0	60.4	.0	674.3
White oaks	186.3	252.7	86.2	.0	525.2
Red oaks	811.8	1,977.2	1,339.3	100.8	4,229.1
Basswood	30.2	7.7	.0	.0	37.9
Elm	.0	33.3	10.0	.0	43.3
Other commercial hardwoods	10.0	137.0	38.3	.0	185.3
Noncommercial hardwoods	129.9	95.6	.0	21.2	246.7
Total hardwoods	4,033.8	8,723.1	3,583.0	291.1	16,631.0
Total, all species	5,795.3	16,118.9	12,685.1	1,716.6	36,315.9

Table 41.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Franklin County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	185,686	55,909	3,673	0	245,268
Tamarack	0	37	0	0	37
White spruce	0	2,537	180	0	2,717
Black spruce	6,094	2,510	182	0	8,786
Red spruce	46,838	26,246	3,504	33	76,621
Red pine	0	0	37	0	37
White pine	2,031	2,560	1,641	71	6,303
Northern white-cedar	0	2,011	510	37	2,558
Hemlock	0	4,107	988	0	5,095
Other softwoods	0	70	0	0	70
Total softwoods	240,649	95,987	10,715	141	347,492
Sugar maple	55,990	11,040	1,836	32	68,898
Soft maples	47,318	28,559	3,416	35	79,328
Yellow birch	18,615	10,874	3,422	280	33,191
Paper birch	16,458	27,456	3,048	0	46,962
Gray birch	8,703	1,797	98	0	10,598
Beech	19,194	3,926	653	0	23,773
White ash	8,334	4,499	842	12	13,687
Black ash	4,062	697	84	0	4,843
Aspen	20,689	8,231	1,562	0	30,482
White oaks	0	0	0	0	0
Red oaks	0	0	73	0	73
Basswood	0	239	74	0	313
Elm	0	540	125	0	665
Other commercial hardwoods	0	353	0	0	353
Noncommercial hardwoods	103,335	6,977	111	0	110,423
Total hardwoods	302,698	105,188	15,344	359	423,589
Total, all species	543,347	201,175	26,059	500	771,081

Table 41.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	3,176.6	12,245.6	2,830.8	.0	18,253.0
Tamarack	.0	12.3	.0	.0	12.3
White spruce	.0	683.1	169.2	.0	852.3
Black spruce	372.6	763.4	191.8	.0	1,327.8
Red spruce	1,566.0	6,452.6	3,364.7	136.8	11,520.1
Red pine	.0	.0	59.8	.0	59.8
White pine	28.4	691.1	2,164.8	257.5	3,141.8
Northern white-cedar	.0	253.5	261.1	40.4	555.0
Hemlock	.0	1,049.7	922.0	.0	1,971.7
Other softwoods	.0	8.7	.0	.0	8.7
Total softwoods	5,143.6	22,160.0	9,964.2	434.7	37,702.5
Sugar maple	1,220.1	3,043.1	1,841.4	127.0	6,231.6
Soft maples	785.5	6,650.7	3,167.3	159.7	10,763.2
Yellow birch	386.2	3,375.6	3,932.4	945.8	8,640.0
Paper birch	319.3	8,245.6	3,671.1	.0	12,236.0
Gray birch	289.7	464.3	107.5	.0	861.5
Beech	598.0	1,227.2	517.4	.0	2,342.6
White ash	128.8	1,271.4	782.3	48.7	2,231.2
Black ash	47.3	202.5	86.9	.0	336.7
Aspen	542.4	2,419.5	1,516.7	.0	4,478.6
White oaks	.0	.0	.0	.0	.0
Red oaks	.0	.0	151.7	.0	151.7
Basswood	.0	37.9	44.4	.0	82.3
Elm	.0	111.6	127.2	.0	238.8
Other commercial hardwoods	.0	86.5	.0	.0	86.5
Noncommercial hardwoods	2,403.4	894.4	66.9	.0	3,364.7
Total hardwoods	6,720.7	28,030.3	16,013.2	1,281.2	52,045.4
Total, all species	11,864.3	50,190.3	25,977.4	1,715.9	89,747.9

Table 42.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Hancock County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	258,126	27,886	317	0	286,329
Tamarack	0	868	135	0	1,003
White spruce	1,938	1,246	133	0	3,317
Black spruce	16,041	3,282	101	0	19,424
Red spruce	109,174	31,628	5,736	98	146,636
Red pine	0	206	221	0	427
White pine	5,968	3,104	1,542	208	10,822
Northern white-cedar	33,805	13,466	1,662	0	48,933
Hemlock	9,732	9,132	1,887	137	20,888
Other softwoods	0	0	0	0	0
Total softwoods	434,784	90,818	11,734	443	537,779
Sugar maple	7,828	1,621	349	80	9,878
Soft maples	54,931	21,705	1,986	81	78,703
Yellow birch	18,057	4,623	751	96	23,527
Paper birch	17,748	14,398	474	8	32,628
Gray birch	11,626	1,721	34	0	13,381
Beech	48,675	4,662	293	15	53,645
White ash	5,813	1,214	366	0	7,393
Black ash	2,015	685	194	0	2,894
Aspen	13,789	7,897	946	0	22,632
White oaks	0	0	0	0	0
Red oaks	1,938	698	114	0	2,750
Basswood	0	0	0	0	0
Elm	0	0	0	0	0
Other commercial hardwoods	3,875	333	0	0	4,208
Noncommercial hardwoods	17,796	1,162	0	0	18,958
Total hardwoods	204,091	60,719	5,507	280	270,597
Total, all species	638,875	151,537	17,241	723	808,376

Table 42.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	3,735.6	4,634.8	221.0	.0	8,591.4
Tamarack	.0	212.7	129.9	.0	342.6
White spruce	5.6	261.7	128.2	.0	395.5
Black spruce	483.7	653.7	94.3	.0	1,231.7
Red spruce	2,615.9	8,468.8	5,525.6	342.7	16,953.0
Red pine	.0	107.7	250.3	.0	358.0
White pine	264.8	816.8	1,780.7	1,233.8	4,096.1
Northern white-cedar	629.6	1,837.6	657.3	.0	3,124.5
Hemlock	468.2	2,206.1	1,841.7	446.7	4,962.7
Other softwoods	.0	.0	.0	.0	.0
Total softwoods	8,203.4	19,199.9	10,629.0	2,023.2	40,055.5
Sugar maple	321.0	379.6	431.2	231.1	1,362.9
Soft maples	1,270.4	4,813.8	1,959.9	237.2	8,281.3
Yellow birch	405.9	1,280.3	718.8	190.9	2,595.9
Paper birch	419.3	3,715.2	570.1	80.4	4,785.0
Gray birch	219.5	257.7	27.2	.0	504.4
Beech	1,187.1	984.1	295.6	47.8	2,514.6
White ash	294.4	279.5	379.1	.0	953.0
Black ash	128.3	125.8	183.4	.0	437.5
Aspen	452.8	2,217.6	892.4	.0	3,562.8
White oaks	.0	.0	.0	.0	.0
Red oaks	38.3	181.6	181.9	.0	401.8
Basswood	.0	.0	.0	.0	.0
Elm	.0	.0	.0	.0	.0
Other commercial hardwoods	224.0	56.9	.0	.0	280.9
Noncommercial hardwoods	428.1	147.8	.0	.0	575.9
Total hardwoods	5,389.1	14,439.9	5,639.6	787.4	26,256.0
Total, all species	13,592.5	33,639.8	16,268.6	2,810.6	66,311.5

Table 43.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Kennebec County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	41,178	5,672	57	0	46,907
Tamarack	0	206	175	0	381
White spruce	0	210	0	0	210
Black spruce	0	0	0	0	0
Red spruce	3,318	535	88	0	3,941
Red pine	0	0	17	0	17
White pine	13,162	7,884	3,483	365	24,894
Northern white-cedar	4,087	3,463	121	0	7,671
Hemlock	11,528	5,274	1,834	35	18,671
Other softwoods	0	0	0	0	0
Total softwoods	73,273	23,244	5,775	400	102,692
Sugar maple	7,453	2,181	145	9	9,788
Soft maples	55,980	13,959	1,626	57	71,622
Yellow birch	5,768	994	198	0	6,960
Paper birch	11,506	4,431	328	0	16,265
Gray birch	22,201	4,957	21	0	27,179
Beech	16,443	1,892	293	5	18,633
White ash	13,157	2,185	149	1	15,492
Black ash	829	185	15	0	1,029
Aspen	10,765	8,498	656	0	19,919
White oaks	816	90	0	0	906
Red oaks	12,381	4,141	681	4	17,207
Basswood	4,124	151	68	0	4,343
Elm	1,647	484	101	0	2,232
Other commercial hardwoods	10,695	1,647	186	5	12,533
Noncommercial hardwoods	23,791	901	54	2	24,748
Total hardwoods	197,556	46,696	4,521	83	248,856
Total, all species	270,829	69,940	10,296	483	351,548

Table 43.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	733.8	1,030.5	46.0	.0	1,810.3
Tamarack	.0	60.1	147.1	.0	207.2
White spruce	.0	57.1	.0	.0	57.1
Black spruce	.0	.0	.0	.0	.0
Red spruce	78.7	155.8	92.6	.0	327.1
Red pine	.0	.0	16.7	.0	16.7
White pine	342.7	2,190.4	4,219.6	1,886.7	8,639.4
Northern white-cedar	93.9	424.3	41.6	.0	559.8
Hemlock	294.8	1,348.8	1,836.2	95.0	3,574.8
Other softwoods	.0	.0	.0	.0	.0
Total softwoods	1,543.9	5,267.0	6,399.8	1,981.7	15,192.4
Sugar maple	290.0	580.1	150.4	15.2	1,035.7
Soft maples	1,183.4	3,292.6	1,583.2	281.2	6,340.4
Yellow birch	182.4	335.6	200.6	.0	718.6
Paper birch	212.3	1,302.7	337.5	.0	1,852.5
Gray birch	922.8	845.8	32.5	.0	1,801.1
Beech	438.3	634.4	319.6	15.3	1,407.6
White ash	106.0	557.4	149.9	22.8	836.1
Black ash	4.9	35.1	11.1	.0	51.1
Aspen	228.2	2,127.4	624.1	.0	2,979.7
White oaks	21.1	16.1	.0	.0	37.2
Red oaks	234.1	1,240.9	715.8	20.6	2,211.4
Basswood	49.9	25.1	37.9	.0	112.9
Elm	53.0	112.6	78.6	.0	244.2
Other commercial hardwoods	71.9	406.4	161.1	20.1	659.5
Noncommercial hardwoods	277.8	166.7	51.8	3.5	499.8
Total hardwoods	4,276.1	11,678.9	4,454.1	378.7	20,787.8
Total, all species	5,820.0	16,945.9	10,853.9	2,360.4	35,980.2

Table 44.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Knox County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	44,617	4,496	59	0	49,172
Tamarack	0	102	64	0	166
White spruce	624	102	52	0	778
Black spruce	0	0	0	0	0
Red spruce	12,323	8,583	1,332	4	22,242
Red pine	0	0	0	0	0
White pine	2,556	867	435	50	3,908
Northern white-cedar	0	220	29	0	249
Hemlock	2,536	1,548	313	37	4,434
Other softwoods	0	0	0	0	0
Total softwoods	62,656	15,918	2,284	91	80,949
Sugar maple	0	168	28	0	196
Soft maples	12,077	6,103	1,114	14	19,308
Yellow birch	2,498	480	36	0	3,014
Paper birch	6,114	2,741	251	0	9,106
Gray birch	5,092	116	0	0	5,208
Beech	5,073	540	71	0	5,684
White ash	3,332	335	95	15	3,777
Black ash	0	29	0	0	29
Aspen	8,518	2,198	29	0	10,745
White oaks	0	0	0	0	0
Red oaks	833	1,454	479	58	2,824
Basswood	0	0	0	0	0
Elm	0	29	0	0	29
Other commercial hardwoods	2,518	117	0	0	2,635
Noncommercial hardwoods	9,938	555	29	0	10,522
Total hardwoods	55,993	14,865	2,132	87	73,077
Total, all species	118,649	30,783	4,416	178	154,026

Table 44.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	880.4	837.6	42.0	.0	1,760.0
Tamarack	.0	30.0	45.7	.0	75.7
White spruce	10.1	42.3	66.5	.0	118.9
Black spruce	.0	.0	.0	.0	.0
Red spruce	340.2	2,173.6	1,304.9	19.4	3,838.1
Red pine	.0	.0	.0	.0	.0
White pine	6.8	221.5	588.5	263.9	1,080.7
Northern white-cedar	.0	30.5	10.5	.0	41.0
Hemlock	40.2	388.3	301.1	155.2	884.8
Other softwoods	.0	.0	.0	.0	.0
Total softwoods	1,277.7	3,723.8	2,359.2	438.5	7,799.2
Sugar maple	.0	48.7	18.3	.0	67.0
Soft maples	247.7	1,492.6	1,193.7	46.2	2,980.2
Yellow birch	56.8	109.5	27.5	.0	193.8
Paper birch	274.9	755.2	278.9	.0	1,309.0
Gray birch	70.1	20.5	.0	.0	90.6
Beech	174.2	105.7	56.8	.0	336.7
White ash	12.1	78.1	108.7	64.4	263.3
Black ash	.0	4.8	.0	.0	4.8
Aspen	191.9	427.2	21.4	.0	640.5
White oaks	.0	.0	.0	.0	.0
Red oaks	1.9	357.0	587.6	243.0	1,189.5
Basswood	.0	.0	.0	.0	.0
Elm	.0	6.9	.0	.0	6.9
Other commercial hardwoods	111.8	28.0	.0	.0	139.8
Noncommercial hardwoods	185.6	95.9	42.1	.0	323.6
Total hardwoods	1,327.0	3,530.1	2,335.0	353.6	7,545.7
Total, all species	2,604.7	7,253.9	4,694.2	792.1	15,344.9

Table 45.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Lincoln County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	55,892	3,248	0	0	59,140
Tamarack	826	265	14	0	1,105
White spruce	0	171	14	0	185
Black spruce	0	0	0	0	0
Red spruce	9,889	5,943	1,228	57	17,117
Red pine	0	14	55	0	69
White pine	13,534	5,259	2,051	166	21,010
Northern white-cedar	823	127	0	0	950
Hemlock	826	2,058	860	5	3,749
Other softwoods	0	0	0	0	0
Total softwoods	81,790	17,085	4,222	228	103,325
Sugar maple	4,980	609	106	4	5,699
Soft maples	38,441	6,604	655	20	45,720
Yellow birch	3,558	768	101	10	4,437
Paper birch	7,529	1,322	243	0	9,094
Gray birch	5,118	451	25	0	5,594
Beech	3,473	1,429	51	5	4,958
White ash	823	220	19	0	1,062
Black ash	0	0	0	0	0
Aspen	9,131	590	46	0	9,767
White oaks	0	28	0	0	28
Red oaks	15,200	3,311	1,251	41	19,803
Basswood	0	86	0	0	86
Elm	0	28	0	0	28
Other commercial hardwoods	7,694	1,286	30	0	9,010
Noncommercial hardwoods	14,479	504	52	15	15,050
Total hardwoods	110,426	17,236	2,579	95	130,336
Total, all species	192,216	34,321	6,801	323	233,661

Table 45.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	815.5	518.7	.0	.0	1,334.2
Tamarack	29.3	57.5	12.8	.0	99.6
White spruce	.0	36.6	12.1	.0	48.7
Black spruce	.0	.0	.0	.0	.0
Red spruce	241.0	1,383.0	1,210.8	176.3	3,011.1
Red pine	.0	8.3	66.0	.0	74.3
White pine	375.0	1,465.2	2,561.1	1,025.2	5,426.5
Northern white-cedar	13.6	16.9	.0	.0	30.5
Hemlock	9.7	560.4	845.2	16.8	1,432.1
Other softwoods	.0	.0	.0	.0	.0
Total softwoods	1,484.1	4,046.6	4,708.0	1,218.3	11,457.0
Sugar maple	212.7	169.2	83.9	20.2	486.0
Soft maples	744.7	1,465.5	681.4	55.3	2,946.9
Yellow birch	79.2	200.3	94.4	27.6	401.5
Paper birch	189.7	369.6	285.8	.0	845.1
Gray birch	72.8	70.1	25.1	.0	168.0
Beech	131.3	351.1	39.6	15.2	537.2
White ash	23.1	64.7	15.6	.0	103.4
Black ash	.0	.0	.0	.0	.0
Aspen	170.2	164.0	48.9	.0	383.1
White oaks	.0	8.4	.0	.0	8.4
Red oaks	222.3	890.0	1,251.0	193.2	2,556.5
Basswood	.0	14.8	.0	.0	14.8
Elm	.0	3.2	.0	.0	3.2
Other commercial hardwoods	162.4	323.0	36.8	.0	522.2
Noncommercial hardwoods	181.1	116.2	53.4	21.6	372.3
Total hardwoods	2,189.5	4,210.1	2,615.9	333.1	9,348.6
Total, all species	3,673.6	8,256.7	7,323.9	1,551.4	20,805.6

Table 46.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Oxford County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	144,130	39,019	2,959	0	186,108
Tamarack	4,297	176	0	0	4,473
White spruce	2,149	3,043	304	0	5,496
Black spruce	21,684	705	0	0	22,389
Red spruce	17,335	26,907	2,525	29	46,796
Red pine	0	500	372	0	872
White pine	17,290	16,911	5,121	167	39,489
Northern white-cedar	4,317	2,584	214	0	7,115
Hemlock	10,822	11,054	2,724	37	24,637
Other softwoods	0	80	0	0	80
Total softwoods	222,024	100,979	14,219	233	337,455
Sugar maple	45,380	6,733	1,800	77	53,990
Soft maples	115,441	27,327	3,445	107	146,320
Yellow birch	19,457	10,754	4,503	483	35,197
Paper birch	68,313	20,374	1,617	0	90,304
Gray birch	4,359	3,055	37	0	7,451
Beech	47,547	16,468	1,807	0	65,822
White ash	10,863	2,605	382	46	13,896
Black ash	2,149	183	0	0	2,332
Aspen	4,336	14,065	712	0	19,113
White oaks	0	835	21	0	856
Red oaks	12,951	6,939	1,087	59	21,036
Basswood	0	0	0	0	0
Elm	0	94	0	0	94
Other commercial hardwoods	6,486	1,250	0	0	7,736
Noncommercial hardwoods	87,884	8,649	37	0	96,570
Total hardwoods	425,166	119,331	15,448	772	560,717
Total, all species	647,190	220,310	29,667	1,005	898,172

Table 46.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	2,637.4	8,098.8	2,360.3	.0	13,096.5
Tamarack	209.9	55.5	.0	.0	265.4
White spruce	112.0	771.6	281.8	.0	1,165.4
Black spruce	513.1	150.0	.0	.0	663.1
Red spruce	412.4	6,493.3	2,267.4	95.0	9,268.1
Red pine	.0	144.0	551.4	.0	695.4
White pine	338.0	4,551.6	6,379.6	965.3	12,234.5
Northern white-cedar	106.9	283.2	66.1	.0	456.2
Hemlock	185.5	2,428.2	2,534.7	144.5	5,292.9
Other softwoods	.0	18.2	.0	.0	18.2
Total softwoods	4,515.2	22,994.4	14,441.3	1,204.8	43,155.7
Sugar maple	770.4	1,992.3	1,945.0	297.7	5,005.4
Soft maples	2,012.9	6,563.9	3,019.2	386.6	11,982.6
Yellow birch	593.2	3,309.6	4,871.1	1,782.5	10,556.4
Paper birch	1,895.7	6,011.8	2,031.2	.0	9,938.7
Gray birch	281.2	467.8	27.6	.0	776.6
Beech	760.0	5,010.1	2,015.2	.0	7,785.3
White ash	329.1	638.6	505.6	167.8	1,641.1
Black ash	25.1	32.8	.0	.0	57.9
Aspen	254.5	3,611.3	594.8	.0	4,460.6
White oaks	.0	125.1	21.4	.0	146.5
Red oaks	173.3	1,638.6	1,036.5	236.2	3,084.6
Basswood	.0	.0	.0	.0	.0
Elm	.0	37.0	.0	.0	37.0
Other commercial hardwoods	42.4	250.5	.0	.0	292.9
Noncommercial hardwoods	1,587.0	909.7	29.1	.0	2,525.8
Total hardwoods	8,724.8	30,599.1	16,096.7	2,870.8	58,291.4
Total, all species	13,240.0	53,593.5	30,538.0	4,075.6	101,447.1

Table 47.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Penobscot County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	316,959	63,506	747	0	381,212
Tamarack	5,807	3,678	416	0	9,901
White spruce	13,568	5,361	480	0	19,409
Black spruce	11,615	2,861	114	0	14,590
Red spruce	69,865	53,151	8,274	26	131,316
Red pine	1,936	756	746	15	3,453
White pine	21,429	6,065	3,476	475	31,445
Northern white-cedar	77,979	66,287	6,647	33	150,946
Hemlock	51,756	37,750	7,824	147	97,477
Other softwoods	0	0	0	0	0
Total softwoods	570,914	239,415	28,724	696	839,749
Sugar maple	38,698	11,842	3,219	100	53,859
Soft maples	101,129	37,383	4,949	90	143,551
Yellow birch	11,674	10,259	1,907	81	23,921
Paper birch	38,774	14,374	1,495	22	54,665
Gray birch	33,037	7,358	0	0	40,395
Beech	113,986	25,609	3,666	31	143,292
White ash	0	3,926	950	27	4,903
Black ash	7,833	5,829	653	0	14,315
Aspen	17,334	20,746	4,693	12	42,785
White oaks	0	652	0	0	652
Red oaks	1,953	402	293	0	2,648
Basswood	0	468	313	0	781
Elm	3,907	1,220	397	111	5,635
Other commercial hardwoods	1,954	1,065	99	0	3,118
Noncommercial hardwoods	85,419	3,334	33	0	88,786
Total hardwoods	455,698	144,467	22,667	474	623,306
Total, all species	1,026,612	383,882	51,391	1,170	1,463,055

Table 47.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	4,689.6	11,715.2	526.8	.0	16,931.6
Tamarack	344.1	731.1	271.5	.0	1,346.7
White spruce	588.3	1,111.1	594.3	.0	2,293.7
Black spruce	203.4	585.2	92.1	.0	880.7
Red spruce	2,058.3	14,203.5	7,239.5	86.8	23,588.1
Red pine	18.6	300.0	875.5	22.4	1,216.5
White pine	608.3	1,651.4	4,640.2	2,728.0	9,627.9
Northern white-cedar	2,296.1	8,696.6	2,399.0	6.9	13,398.6
Hemlock	1,615.5	9,050.9	7,099.8	468.3	18,234.5
Other softwoods	.0	.0	.0	.0	.0
Total softwoods	12,422.2	48,045.0	23,738.7	3,312.4	87,518.3
Sugar maple	721.4	3,529.3	3,754.2	345.0	8,349.9
Soft maples	2,633.0	8,843.0	4,530.5	331.8	16,338.3
Yellow birch	158.9	2,818.8	1,868.6	252.9	5,099.2
Paper birch	1,192.8	4,605.5	1,786.3	141.6	7,726.2
Gray birch	1,431.0	1,148.2	.0	.0	2,579.2
Beech	2,878.5	7,193.6	3,224.8	9.9	13,306.8
White ash	.0	1,078.5	842.5	90.7	2,011.7
Black ash	318.1	1,238.6	598.7	.0	2,155.4
Aspen	372.3	6,378.2	4,442.5	54.4	11,247.4
White oaks	.0	113.6	.0	.0	113.6
Red oaks	11.6	81.2	363.3	.0	456.1
Basswood	.0	66.9	159.3	.0	226.2
Elm	46.2	234.7	556.3	626.4	1,463.6
Other commercial hardwoods	22.8	208.9	86.8	.0	318.5
Noncommercial hardwoods	1,175.8	571.2	31.2	.0	1,778.2
Total hardwoods	10,962.4	38,110.2	22,245.0	1,852.7	73,170.3
Total, all species	23,384.6	86,155.2	45,983.7	5,165.1	160,688.6

Table 48.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Piscataquis County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	367,135	125,364	4,702	0	497,201
Tamarack	8,513	2,665	243	0	11,421
White spruce	34,872	11,440	1,142	0	47,454
Black spruce	10,693	9,629	1,413	0	21,735
Red spruce	184,567	131,132	17,363	157	333,219
Red pine	0	0	0	0	0
White pine	6,408	5,759	2,203	657	15,027
Northern white-cedar	36,730	31,001	11,465	291	79,487
Hemlock	10,656	8,020	2,117	167	20,960
Other softwoods	0	0	0	0	0
Total softwoods	659,574	325,010	40,648	1,272	1,026,504
Sugar maple	23,570	13,674	6,192	535	43,971
Soft maples	55,973	32,687	6,147	158	94,965
Yellow birch	62,074	12,146	4,963	347	79,530
Paper birch	72,502	16,370	1,564	13	90,449
Gray birch	2,128	674	73	0	2,875
Beech	97,375	18,297	4,760	36	120,468
White ash	8,551	2,254	375	0	11,180
Black ash	8,566	3,801	339	0	12,706
Aspen	16,841	9,961	2,963	47	29,812
White oaks	0	0	0	0	0
Red oaks	0	0	96	37	133
Basswood	0	331	132	0	463
Elm	2,127	202	0	0	2,329
Other commercial hardwoods	6,288	143	60	0	6,491
Noncommercial hardwoods	82,145	7,259	110	0	89,514
Total hardwoods	438,140	117,799	27,774	1,173	584,886
Total, all species	1,097,714	442,809	68,422	2,445	1,611,390

Table 48.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	8,434.4	26,230.6	3,427.4	.0	38,092.4
Tamarack	332.7	488.2	159.4	.0	980.3
White spruce	1,073.7	2,754.8	1,065.3	.0	4,893.8
Black spruce	291.7	2,235.0	1,294.4	.0	3,821.1
Red spruce	6,044.9	31,546.6	17,397.2	450.3	55,439.0
Red pine	.0	.0	.0	.0	.0
White pine	38.1	1,507.1	2,955.1	3,504.5	8,004.8
Northern white-cedar	1,177.1	4,634.5	4,764.3	254.6	10,830.5
Hemlock	334.6	2,037.8	2,111.9	342.3	4,826.6
Other softwoods	.0	.0	.0	.0	.0
Total softwoods	17,727.2	71,434.6	33,175.0	4,551.7	126,888.5
Sugar maple	430.0	4,066.2	7,683.8	1,700.1	13,880.1
Soft maples	863.4	8,202.8	5,806.6	537.0	15,409.8
Yellow birch	1,449.5	3,854.7	5,474.5	944.6	11,723.3
Paper birch	1,069.3	4,446.1	1,923.5	63.7	7,502.6
Gray birch	191.8	151.2	71.2	.0	414.2
Beech	1,570.4	5,609.8	4,452.8	24.7	11,657.7
White ash	33.6	672.4	418.7	.0	1,124.7
Black ash	162.1	895.9	351.8	.0	1,409.8
Aspen	714.4	3,325.6	3,310.7	149.0	7,499.7
White oaks	.0	.0	.0	.0	.0
Red oaks	.0	.0	189.3	158.0	347.3
Basswood	.0	54.7	55.2	.0	109.9
Elm	7.6	77.2	.0	.0	84.8
Other commercial hardwoods	15.8	27.1	37.1	.0	80.0
Noncommercial hardwoods	932.6	761.7	34.5	.0	1,728.8
Total hardwoods	7,440.5	32,145.4	29,809.7	3,577.1	72,972.7
Total, all species	25,167.7	103,580.0	62,984.7	8,128.8	199,861.2

Table 49.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Sagadahoc County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	13,031	1,132	0	0	14,163
Tamarack	1,647	227	49	0	1,923
White spruce	0	0	0	0	0
Black spruce	0	0	0	0	0
Red spruce	824	348	100	0	1,272
Red pine	0	0	0	0	0
White pine	3,443	3,107	1,262	88	7,900
Northern white-cedar	0	878	36	0	914
Hemlock	13,400	945	303	5	14,653
Other softwoods	0	0	0	0	0
Total softwoods	32,345	6,637	1,750	93	40,825
Sugar maple	0	0	55	2	57
Soft maples	7,376	4,556	513	14	12,459
Yellow birch	0	28	0	0	28
Paper birch	5,913	1,228	28	0	7,169
Gray birch	0	655	0	0	655
Beech	0	259	44	0	303
White ash	824	1,025	28	0	1,877
Black ash	0	0	0	0	0
Aspen	0	671	14	0	685
White oaks	898	55	0	0	953
Red oaks	6,737	1,344	389	8	8,478
Basswood	0	85	0	0	85
Elm	0	28	0	0	28
Other commercial hardwoods	0	106	18	0	124
Noncommercial hardwoods	8,219	410	0	0	8,629
Total hardwoods	29,967	10,450	1,089	24	41,530
Total, all species	62,312	17,087	2,839	117	82,355

Table 49.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	154.8	205.0	.0	.0	359.8
Tamarack	55.5	30.9	33.5	.0	119.9
White spruce	.0	.0	.0	.0	.0
Black spruce	.0	.0	.0	.0	.0
Red spruce	31.0	118.8	102.8	.0	252.6
Red pine	.0	.0	.0	.0	.0
White pine	26.8	1,002.6	1,519.6	474.4	3,023.4
Northern white-cedar	.0	113.3	11.6	.0	124.9
Hemlock	137.3	233.7	265.3	17.0	653.3
Other softwoods	.0	.0	.0	.0	.0
Total softwoods	405.4	1,704.3	1,932.8	491.4	4,533.9
Sugar maple	.0	.0	93.3	15.3	108.6
Soft maples	105.6	1,122.6	491.4	47.5	1,767.1
Yellow birch	.0	3.6	.0	.0	3.6
Paper birch	134.6	316.3	31.2	.0	482.1
Gray birch	.0	127.4	.0	.0	127.4
Beech	.0	77.0	54.9	.0	131.9
White ash	17.9	227.2	26.2	.0	271.3
Black ash	.0	.0	.0	.0	.0
Aspen	.0	185.6	9.3	.0	194.9
White oaks	27.4	9.8	.0	.0	37.2
Red oaks	224.4	307.0	480.7	42.6	1,054.7
Basswood	.0	9.8	.0	.0	9.8
Elm	.0	6.9	.0	.0	6.9
Other commercial hardwoods	.0	26.8	14.3	.0	41.1
Noncommercial hardwoods	45.1	78.8	.0	.0	123.9
Total hardwoods	555.0	2,498.8	1,201.3	105.4	4,360.5
Total, all species	960.4	4,203.1	3,134.1	596.8	8,894.4

Table 50.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Somerset County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	442,092	143,855	6,189	16	592,152
Tamarack	2,102	495	72	0	2,669
White spruce	25,192	11,617	700	0	37,509
Black spruce	16,818	12,581	213	0	29,612
Red spruce	143,442	95,105	11,384	104	250,035
Red pine	0	1,504	332	0	1,836
White pine	12,594	6,735	2,605	187	22,121
Northern white-cedar	27,324	25,429	8,971	116	61,840
Hemlock	8,403	10,649	2,420	157	21,629
Other softwoods	0	0	0	0	0
Total softwoods	677,967	307,970	32,886	580	1,019,403
Sugar maple	58,999	22,933	9,004	733	91,669
Soft maples	147,082	39,027	5,286	95	191,490
Yellow birch	86,271	17,756	6,491	599	111,117
Paper birch	54,783	33,325	3,171	11	91,290
Gray birch	6,302	4,679	110	0	11,091
Beech	56,783	17,779	3,922	79	78,563
White ash	8,409	4,222	487	0	13,118
Black ash	18,916	3,186	381	0	22,483
Aspen	10,507	16,694	2,592	0	29,793
White oaks	0	0	0	0	0
Red oaks	0	750	42	48	840
Basswood	2,100	181	108	0	2,389
Elm	4,200	540	109	0	4,849
Other commercial hardwoods	4,198	793	165	36	5,192
Noncommercial hardwoods	162,087	8,588	137	0	170,812
Total hardwoods	620,637	170,453	32,005	1,601	824,696
Total, all species	1,298,604	478,423	64,891	2,181	1,844,099

Table 50.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	8,903.6	31,452.0	4,976.6	42.6	45,374.8
Tamarack	12.9	106.3	66.4	.0	185.6
White spruce	913.4	2,472.0	644.6	.0	4,030.0
Black spruce	770.4	2,503.6	199.3	.0	3,473.3
Red spruce	4,341.6	23,507.3	10,674.3	315.1	38,838.3
Red pine	.0	601.3	348.3	.0	949.6
White pine	343.9	1,884.3	3,411.4	887.3	6,526.9
Northern white-cedar	404.1	4,096.2	3,737.3	127.8	8,365.4
Hemlock	303.5	2,539.4	2,436.0	530.4	5,809.3
Other softwoods	.0	.0	.0	.0	.0
Total softwoods	15,993.4	69,162.4	26,494.2	1,903.2	113,553.2
Sugar maple	1,418.4	6,876.9	10,832.3	2,712.9	21,840.5
Soft maples	2,861.4	9,763.9	5,655.3	231.0	18,511.6
Yellow birch	1,442.2	5,228.4	7,738.2	2,080.8	16,489.6
Paper birch	977.3	9,142.8	3,624.5	75.0	13,819.6
Gray birch	354.2	820.8	90.4	.0	1,265.4
Beech	1,273.0	4,753.7	3,996.6	242.7	10,266.0
White ash	277.1	1,214.9	427.9	.0	1,919.9
Black ash	601.1	724.8	262.9	.0	1,588.8
Aspen	133.9	4,246.4	2,852.5	.0	7,232.8
White oaks	.0	.0	.0	.0	.0
Red oaks	.0	199.9	41.0	160.2	401.1
Basswood	12.3	27.1	54.5	.0	93.9
Elm	187.1	125.7	126.4	.0	439.2
Other commercial hardwoods	256.8	152.7	121.2	62.5	593.2
Noncommercial hardwoods	2,137.7	1,081.1	114.1	.0	3,332.9
Total hardwoods	11,932.5	44,359.1	35,937.8	5,565.1	97,794.5
Total, all species	27,925.9	113,521.5	62,432.0	7,468.3	211,347.7

Table 51.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Waldo County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	107,944	11,344	125	0	119,413
Tamarack	0	945	255	0	1,200
White spruce	1,624	1,608	216	0	3,448
Black spruce	0	168	0	0	168
Red spruce	1,676	3,724	450	0	5,850
Red pine	0	0	0	0	0
White pine	1,675	2,868	1,092	77	5,712
Northern white-cedar	16,533	6,008	351	0	22,892
Hemlock	9,976	3,679	908	0	14,563
Other softwoods	0	0	0	0	0
Total softwoods	139,428	30,344	3,397	77	173,246
Sugar maple	9,096	2,933	193	14	12,236
Soft maples	38,671	11,403	1,246	21	51,341
Yellow birch	8,207	1,281	231	0	9,719
Paper birch	15,539	6,430	245	4	22,218
Gray birch	12,279	2,202	0	0	14,481
Beech	22,083	3,620	368	15	26,086
White ash	3,247	1,393	176	0	4,816
Black ash	0	413	14	0	427
Aspen	12,253	5,647	683	0	18,583
White oaks	0	28	14	0	42
Red oaks	6,559	2,128	404	0	9,091
Basswood	0	287	84	4	375
Elm	825	141	14	0	980
Other commercial hardwoods	3,286	658	0	0	3,944
Noncommercial hardwoods	12,395	986	14	0	13,395
Total hardwoods	144,440	39,550	3,686	58	187,734
Total, all species	283,868	69,894	7,083	135	360,980

Table 51.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	2,196.7	1,930.9	99.4	.0	4,227.0
Tamarack	.0	189.2	206.6	.0	395.8
White spruce	104.2	369.0	195.7	.0	668.9
Black spruce	.0	43.4	.0	.0	43.4
Red spruce	21.1	912.0	446.4	.0	1,379.5
Red pine	.0	.0	.0	.0	.0
White pine	61.7	767.0	1,287.6	361.2	2,477.5
Northern white-cedar	339.9	818.7	119.5	.0	1,278.1
Hemlock	362.0	1,000.0	857.5	.0	2,219.5
Other softwoods	.0	.0	.0	.0	.0
Total softwoods	3,085.6	6,030.2	3,212.7	361.2	12,689.7
Sugar maple	207.9	749.9	206.5	61.4	1,225.7
Soft maples	700.4	2,817.4	1,240.4	90.7	4,848.9
Yellow birch	262.4	346.1	224.5	.0	833.0
Paper birch	653.5	1,592.6	307.7	27.2	2,581.0
Gray birch	477.0	334.7	.0	.0	811.7
Beech	611.0	956.3	307.3	34.7	1,909.3
White ash	69.6	395.7	206.1	.0	671.4
Black ash	.0	67.0	19.2	.0	86.2
Aspen	299.2	1,432.9	623.5	.0	2,355.6
White oaks	.0	10.9	26.5	.0	37.4
Red oaks	231.6	488.4	456.2	.0	1,176.2
Basswood	.0	40.8	32.0	2.5	75.3
Elm	48.4	52.8	12.5	.0	113.7
Other commercial hardwoods	77.6	155.7	.0	.0	233.3
Noncommercial hardwoods	154.8	164.4	11.9	.0	331.1
Total hardwoods	3,793.4	9,605.6	3,674.3	216.5	17,289.8
Total, all species	6,879.0	15,635.8	6,887.0	577.7	29,979.5

Table 52.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, Washington County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	405,095	56,244	537	0	461,876
Tamarack	6,710	1,818	385	12	8,925
White spruce	10,997	10,204	262	0	21,463
Black spruce	40,215	7,823	138	0	48,176
Red spruce	118,622	55,851	7,394	49	181,916
Red pine	0	114	190	0	304
White pine	2,194	2,151	1,677	197	6,219
Northern white-cedar	59,321	26,046	3,163	13	88,543
Hemlock	48,400	20,071	3,643	9	72,123
Other softwoods	0	0	0	0	0
Total softwoods	691,554	180,322	17,389	280	889,545
Sugar maple	17,614	4,033	625	192	22,464
Soft maples	136,219	28,242	3,985	15	168,461
Yellow birch	19,746	5,309	1,291	11	26,357
Paper birch	44,131	18,398	1,312	0	63,841
Gray birch	53,661	2,205	0	0	55,866
Beech	90,320	7,273	1,214	0	98,807
White ash	0	853	197	0	1,050
Black ash	13,194	4,189	188	0	17,571
Aspen	65,348	12,209	2,538	15	80,110
White oaks	0	0	0	0	0
Red oaks	2,193	1,132	162	0	3,487
Basswood	0	0	0	0	0
Elm	0	0	0	0	0
Other commercial hardwoods	2,298	0	0	0	2,298
Noncommercial hardwoods	28,757	853	0	0	29,610
Total hardwoods	473,481	84,696	11,512	233	569,922
Total, all species	1,165,035	265,018	28,901	513	1,459,467

Table 52.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	6,382.8	9,807.7	398.6	.0	16,589.1
Tamarack	180.1	364.1	262.8	31.4	838.4
White spruce	464.7	2,095.9	244.9	.0	2,805.5
Black spruce	1,501.1	1,286.7	103.4	.0	2,891.2
Red spruce	3,295.1	13,309.3	6,784.7	206.7	23,595.8
Red pine	.0	35.5	223.2	.0	258.7
White pine	134.8	561.4	2,044.0	820.7	3,560.9
Northern white-cedar	1,668.6	3,401.8	1,149.9	9.2	6,229.5
Hemlock	1,148.8	4,835.6	3,191.7	49.5	9,225.6
Other softwoods	.0	.0	.0	.0	.0
Total softwoods	14,776.0	35,698.0	14,403.2	1,117.5	65,994.7
Sugar maple	565.4	958.5	648.1	596.4	2,768.4
Soft maples	3,188.5	6,270.4	3,599.1	50.3	13,108.3
Yellow birch	356.8	1,476.1	1,143.9	52.0	3,028.8
Paper birch	1,299.2	4,523.7	1,408.3	.0	7,231.2
Gray birch	1,107.6	305.3	.0	.0	1,412.9
Beech	2,400.6	1,622.6	1,190.2	.0	5,213.4
White ash	.0	262.6	132.8	.0	395.4
Black ash	575.7	899.7	156.8	.0	1,632.2
Aspen	1,882.1	2,529.8	2,793.5	31.6	7,237.0
White oaks	.0	.0	.0	.0	.0
Red oaks	89.8	374.9	122.0	.0	586.7
Basswood	.0	.0	.0	.0	.0
Elm	.0	.0	.0	.0	.0
Other commercial hardwoods	11.7	.0	.0	.0	11.7
Noncommercial hardwoods	686.8	124.3	.0	.0	811.1
Total hardwoods	12,164.2	19,347.9	11,194.7	730.3	43,437.1
Total, all species	26,940.2	55,045.9	25,597.9	1,847.8	109,431.8

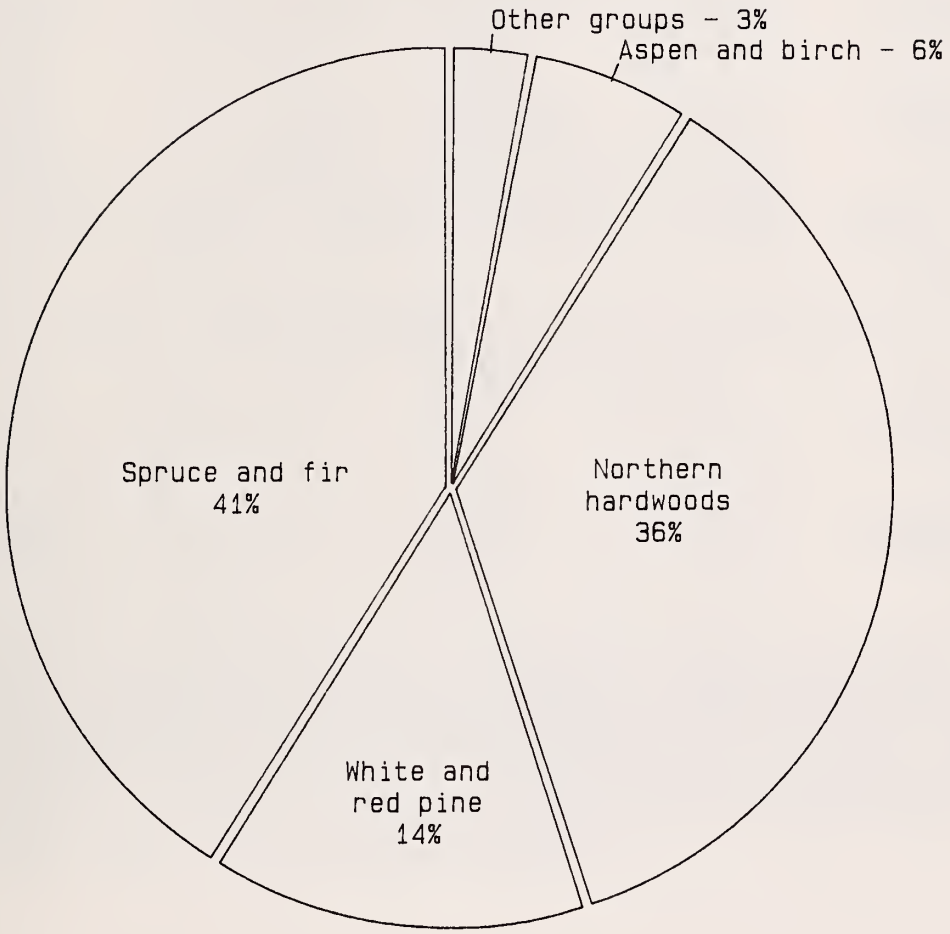
Table 53.--Number of trees and net aboveground tree biomass of all live trees on timberland by species and diameter group, York County, Maine, 1982

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand trees				
Balsam fir	25,157	1,381	14	0	26,552
Tamarack	0	39	35	0	74
White spruce	0	112	0	0	112
Black spruce	0	379	0	0	379
Red spruce	4,211	1,134	205	0	5,550
Red pine	1,685	288	54	0	2,027
White pine	38,307	14,643	6,502	519	59,971
Northern white-cedar	0	0	0	0	0
Hemlock	31,891	9,170	3,800	134	44,995
Other softwoods	840	482	289	0	1,611
Total softwoods	102,091	27,628	10,899	653	141,271
Sugar maple	19,421	1,493	189	10	21,113
Soft maples	120,180	20,564	1,595	42	142,381
Yellow birch	6,695	1,545	116	0	8,356
Paper birch	31,899	4,940	246	0	37,085
Gray birch	59,327	687	0	0	60,014
Beech	15,193	1,303	195	25	16,716
White ash	16,035	1,150	106	0	17,291
Black ash	1,695	192	0	0	1,887
Aspen	14,530	3,701	140	6	18,377
White oaks	8,439	1,510	193	41	10,183
Red oaks	20,985	10,223	1,836	50	33,094
Basswood	2,543	0	13	0	2,556
Elm	0	54	15	0	69
Other commercial hardwoods	16,065	1,228	131	0	17,424
Noncommercial hardwoods	20,208	106	0	0	20,314
Total hardwoods	353,215	48,696	4,775	174	406,860
Total, all species	455,306	76,324	15,674	827	548,131

Table 53.-- Continued

Species	Diameter group (inches at breast height)				All groups
	1.0-4.9	5.0-10.9	11.0-20.9	21+	
	Thousand green tons				
Balsam fir	364.0	281.3	8.6	.0	653.9
Tamarack	.0	18.5	19.2	.0	37.7
White spruce	.0	25.8	.0	.0	25.8
Black spruce	.0	58.2	.0	.0	58.2
Red spruce	138.6	289.7	165.6	.0	593.9
Red pine	111.8	101.3	50.8	.0	263.9
White pine	985.1	3,795.7	8,576.0	2,246.0	15,602.8
Northern white-cedar	.0	.0	.0	.0	.0
Hemlock	532.5	2,356.4	3,767.1	441.6	7,097.6
Other softwoods	28.5	78.6	125.0	.0	232.1
Total softwoods	2,160.5	7,005.5	12,712.3	2,687.6	24,565.9
Sugar maple	311.7	371.4	200.7	26.3	910.1
Soft maples	2,219.1	4,556.2	1,443.5	89.1	8,307.9
Yellow birch	46.5	406.2	90.1	.0	542.8
Paper birch	765.4	1,288.4	318.3	.0	2,372.1
Gray birch	1,528.2	97.1	.0	.0	1,625.3
Beech	265.7	408.0	186.6	59.4	919.7
White ash	404.9	235.0	144.8	.0	784.7
Black ash	16.0	39.7	.0	.0	55.7
Aspen	306.4	866.6	139.2	21.9	1,334.1
White oaks	333.3	304.5	289.5	183.4	1,110.7
Red oaks	574.9	2,385.7	2,102.4	213.7	5,276.7
Basswood	56.7	.0	6.0	.0	62.7
Elm	.0	14.0	4.5	.0	18.5
Other commercial hardwoods	262.5	218.5	126.5	.0	607.5
Noncommercial hardwoods	222.2	26.6	.0	.0	248.8
Total hardwoods	7,313.5	11,217.9	5,052.1	593.8	24,177.3
Total, all species	9,474.0	18,223.4	17,764.4	3,281.4	48,743.2

ABOVEGROUND BIOMASS OF CULL TREES AND SALVABLE DEAD TREES



Distribution of Biomass
by Forest-type Group

Table 54.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	23,463.6	5,699.8	529.2*	.0	29,692.6	8
Spruce/fir	51,966.3	29,789.3	3,430.6	69.0**	85,255.2	4
Loblolly/shortleaf	6.4**	.0	2.0**	.0	8.4	80
Oak/pine	77.2**	107.0*	.0	.0	184.2	41
Oak/hickory	1,595.1	1,240.2	106.7*	.0	2,942.0	17
Elm/ash/red maple	821.6*	2,396.1*	91.5**	.0	3,309.2	24
Northern hardwoods	49,478.9	24,154.6	2,474.2	.0	76,107.7	5
Aspen/birch	2,959.1*	8,792.6	871.9*	.0	12,623.6	11
Total, all groups	130,368.2	72,179.6	7,506.1	69.0	210,122.9	1.9
Sampling error (percent)	3	4	10	67	1.9	
	Green tons per acre[b]					
White/red pine	15.3	10.2	5.2	.0	13.5	
Spruce/fir	12.7	10.4	4.3	3.0	11.0	
Loblolly/shortleaf	1.6	.0	.5	.0	1.0	
Oak/pine	5.0	5.2	.0	.0	5.1	
Oak/hickory	15.1	8.1	2.2	.0	9.6	
Elm/ash/red maple	17.9	16.9	1.8	.0	13.9	
Northern hardwoods	19.3	12.7	4.6	.0	15.2	
Aspen/birch	17.6	9.2	2.3	.0	8.4	
All groups	15.3	10.9	3.9	2.1	12.3	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 55.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Androscoggin County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	409.4*	168.1*	.0	.0	577.5	27
Spruce/fir	43.7**	69.4**	12.4**	.0	125.5	64
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	22.7**	.0	.0	22.7	100
Oak/hickory	.0	77.8**	.0	.0	77.8	77
Elm/ash/red maple	.0	64.7**	.0	.0	64.7	100
Northern hardwoods	426.4**	51.6*	61.4**	.0	539.4	42
Aspen/birch	1.6**	107.3**	7.5**	.0	116.4	52
Total, all groups	881.1	561.6	81.3	.0	1,524.0	16.8
Sampling error (percent)	30	23	50	0	16.8	
	Green tons per acre[b]					
White/red pine	7.3	4.9	.0	.0	6.4	
Spruce/fir	10.2	16.1	2.9	.0	9.7	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	5.3	.0	.0	5.3	
Oak/hickory	.0	6.1	.0	.0	6.1	
Elm/ash/red maple	.0	15.0	.0	.0	15.0	
Northern hardwoods	19.8	3.0	3.0	.0	9.1	
Aspen/birch	.4	5.0	1.7	.0	3.9	
All groups	10.2	5.7	2.8	.0	7.1	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 56.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Aroostook County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	703.0**	.0	.0	.0	703.0	66
Spruce/fir	17,209.8	5,979.8	675.2*	4.3**	23,869.1	6
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	.0	.0	.0	.0	.0	0
Elm/ash/red maple	202.0**	621.2**	63.5**	.0	886.7	45
Northern hardwoods	14,644.9	3,684.6	578.6*	.0	18,908.1	10
Aspen/birch	999.5**	1,987.4*	57.9**	.0	3,044.8	25
Total, all groups	33,759.2	12,273.0	1,375.2	4.3	47,411.7	3.9
Sampling error (percent)	6	10	23	100	3.9	
	Green tons per acre[b]					
White/red pine	20.8	.0	.0	.0	16.6	
Spruce/fir	12.9	8.3	4.0	.5	10.7	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	.0	.0	.0	.0	.0	
Elm/ash/red maple	23.0	18.5	3.7	.0	14.9	
Northern hardwoods	21.1	16.3	5.2	.0	18.3	
Aspen/birch	23.6	7.6	.6	.0	7.7	
All groups	16.0	9.8	3.5	.5	12.6	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 57.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Cumberland County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	3,121.4	533.1*	147.8*	.0	3,802.3	17
Spruce/fir	24.6**	65.1**	.0	27.4**	117.1	64
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	39.8**	.0	.0	39.8	87
Oak/hickory	15.8**	237.2*	.0	.0	253.0	47
Elm/ash/red maple	.0	23.4**	10.8**	.0	34.2	75
Northern hardwoods	210.2*	495.9*	20.3**	.0	726.4	28
Aspen/birch	.0	40.2**	.0	.0	40.2	100
Total, all groups	3,372.0	1,434.7	178.9	27.4	5,013.0	12.2
Sampling error (percent)	18	22	38	100	12.2	
	Green tons per acre[b]					
White/red pine	192.4	10.5	7.1	.0	14.4	
Spruce/fir	6.2	15.5	.0	5.5	8.9	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	4.8	.0	.0	4.8	
Oak/hickory	3.7	11.3	.0	.0	10.0	
Elm/ash/red maple	.0	5.6	2.7	.0	4.2	
Northern hardwoods	10.0	9.9	2.4	.0	9.1	
Aspen/birch	.0	4.9	.0	.0	4.9	
All groups	15.2	9.8	5.4	5.5	12.3	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 58.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Franklin County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	1,080.2**	.0	.0	.0	1,080.2	54
Spruce/fir	1,902.3*	2,335.7	192.9**	.0	4,430.9	17
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	.0	.0	.0	.0	.0	0
Elm/ash/red maple	.0	.0	.0	.0	.0	0
Northern hardwoods	2,054.0*	2,528.2	186.4**	.0	4,768.6	17
Aspen/birch	327.7**	1,280.8**	63.2**	.0	1,671.7	39
Total, all groups	5,364.2	6,144.7	442.5	.0	11,951.4	7.8
Sampling error (percent)	18	14	41	0	7.8	
	Green tons per acre[b]					
White/red pine	20.7	.0	.0	.0	20.7	
Spruce/fir	13.1	11.5	4.8	.0	11.4	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	.0	.0	.0	.0	.0	
Elm/ash/red maple	.0	.0	.0	.0	.0	
Northern hardwoods	11.2	9.9	10.0	.0	10.4	
Aspen/birch	31.2	15.1	3.3	.0	14.6	
All groups	13.7	11.3	5.7	.0	11.8	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 59.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Hancock County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	1,021.6*	144.7**	56.3**	.0	1,222.6	33
Spruce/fir	2,702.3	1,982.6*	23.1**	37.3**	4,745.3	16
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	85.0**	.0	34.0**	.0	119.0	77
Elm/ash/red maple	.0	88.9**	.0	.0	88.9	100
Northern hardwoods	2,315.7*	1,132.7*	75.2**	.0	3,523.6	29
Aspen/birch	.0	745.5**	49.6**	.0	795.1	50
Total, all groups	6,124.6	4,094.4	238.2	37.3	10,494.5	9.6
Sampling error (percent)	17	19	36	100	9.6	
	Green tons per acre[b]					
White/red pine	13.7	15.7	6.1	.0	13.2	
Spruce/fir	14.3	11.9	.6	3.8	11.8	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	9.2	.0	3.5	.0	6.3	
Elm/ash/red maple	.0	9.4	.0	.0	9.4	
Northern hardwoods	31.0	17.4	1.6	.0	18.9	
Aspen/birch	.0	13.2	5.1	.0	12.0	
All groups	17.7	13.3	2.1	3.8	13.5	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 60.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Kennebec County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	1,286.5	239.7*	.0	.0	1,526.2	20
Spruce/fir	.0	339.5**	.0	.0	339.5	56
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	18.9**	.0	.0	18.9	100
Oak/hickory	100.8**	63.8**	.0	.0	164.6	66
Elm/ash/red maple	83.5**	9.7**	.0	.0	93.2	90
Northern hardwoods	365.1*	278.2*	17.1**	.0	660.4	25
Aspen/birch	28.5**	599.1*	.0	.0	627.6	33
Total, all groups	1,864.4	1,548.9	17.1	.0	3,430.4	10.7
Sampling error (percent)	17	19	100	0	10.7	
	Green tons per acre[b]					
White/red pine	8.7	8.6	.0	.0	8.3	
Spruce/fir	.0	17.1	.0	.0	17.1	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	4.7	.0	.0	4.7	
Oak/hickory	25.2	5.3	.0	.0	10.3	
Elm/ash/red maple	20.9	2.4	.0	.0	7.7	
Northern hardwoods	10.1	4.1	2.1	.0	5.9	
Aspen/birch	7.0	12.5	.0	.0	12.0	
All groups	9.5	8.4	.8	.0	8.6	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 61.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Knox County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	355.0**	68.4**	.0	.0	423.4	46
Spruce/fir	165.8*	108.6*	23.4**	.0	297.8	26
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	121.0**	30.1**	15.3**	.0	166.4	56
Elm/ash/red maple	.0	.0	.0	.0	.0	0
Northern hardwoods	556.9 *	145.8**	38.0**	.0	740.7	35
Aspen/birch	.0	164.7**	12.4**	.0	177.1	61
Total, all groups	1,198.7	517.6	89.1	.0	1,805.4	14.5
Sampling error (percent)	22	36	48	0	14.5	
	Green tons per acre[b]					
White/red pine	17.1	16.3	.0	.0	16.9	
Spruce/fir	5.3	4.2	2.8	.0	4.6	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	14.6	7.2	3.6	.0	10.0	
Elm/ash/red maple	.0	.0	.0	.0	.0	
Northern hardwoods	19.1	17.6	9.0	.0	17.8	
Aspen/birch	.0	13.1	3.0	.0	10.5	
All groups	13.4	9.4	4.2	.0	10.9	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 62.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Lincoln County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	672.7*	185.5**	65.9**	.0	924.1	26
Spruce/fir	162.5**	112.9**	40.1*	.0	315.5	34
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	423.6*	133.2**	.0	.0	556.8	39
Elm/ash/red maple	.0	156.4**	.0	.0	156.4	60
Northern hardwoods	151.4**	204.0**	28.1**	.0	383.5	45
Aspen/birch	.0	32.7**	.0	.0	32.7	100
Total, all groups	1,410.2	824.7	134.1	.0	2,369.0	12.1
Sampling error (percent)	20	28	46	0	12.1	
	Green tons per acre[b]					
White/red pine	10.3	7.9	8.6	.0	9.6	
Spruce/fir	10.6	10.0	1.7	.0	6.3	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	18.6	17.5	.0	.0	16.2	
Elm/ash/red maple	.0	13.1	.0	.0	13.1	
Northern hardwoods	18.9	17.4	3.5	.0	13.8	
Aspen/birch	.0	8.6	.0	.0	8.6	
All groups	12.6	11.8	3.1	.0	10.6	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 63.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Oxford County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	1,652.2*	1,335.3*	.0	.0	2,987.5	22
Spruce/fir	731.3*	1,053.7*	70.6**	.0	1,855.6	27
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	39.3**	.0	.0	.0	39.3	100
Oak/hickory	.0	311.0**	.0	.0	311.0	63
Elm/ash/red maple	.0	62.3**	.0	.0	62.3	100
Northern hardwoods	4,124.3	2,535.3	191.1**	.0	6,850.7	15
Aspen/birch	.0	322.0*	231.4**	.0	553.4	34
Total, all groups	6,547.1	5,619.6	493.1	.0	12,659.8	7.7
Sampling error (percent)	15	14	33	0	7.7	
	Green tons per acre[b]					
White/red pine	9.7	11.4	.0	.0	10.4	
Spruce/fir	6.9	12.4	1.6	.0	7.9	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	3.7	.0	.0	.0	3.7	
Oak/hickory	.0	9.8	.0	.0	9.8	
Elm/ash/red maple	.0	11.5	.0	.0	11.5	
Northern hardwoods	17.6	10.5	6.3	.0	13.5	
Aspen/birch	.0	3.8	7.7	.0	4.8	
All groups	12.6	9.9	4.8	.0	10.6	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 64.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Penobscot County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	4,607.0*	1,100.1*	85.7**	.0	5,792.8	22
Spruce/fir	5,961.6	5,099.6	362.1**	.0	11,423.3	11
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	.0	.0	.0	.0	.0	0
Elm/ash/red maple	204.7**	453.7**	.0	.0	658.4	62
Northern hardwoods	4,430.2	4,093.1	265.5**	.0	8,788.8	16
Aspen/birch	401.4**	1,760.1*	175.8**	.0	2,337.3	24
Total, all groups	15,604.9	12,506.6	889.1	.0	29,000.6	5.3
Sampling error (percent)	10	11	39	0	5.3	
	Green tons per acre[b]					
White/red pine	21.0	12.7	8.9	.0	18.4	
Spruce/fir	14.1	15.7	6.4	.0	14.2	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	.0	.0	.0	.0	.0	
Elm/ash/red maple	10.7	23.6	.0	.0	13.7	
Northern hardwoods	21.1	15.9	9.1	.0	17.4	
Aspen/birch	20.9	10.9	9.5	.0	11.7	
All groups	17.5	14.7	7.2	.0	15.5	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 65.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Piscataquis County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	1,375.6**	200.1**	.0	.0	1,575.7	53
Spruce/fir	10,146.7	2,607.2	1,046.8*	.0	13,800.7	9
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	76.1**	.0	.0	.0	76.1	100
Elm/ash/red maple	.0	123.9**	.0	.0	123.9	100
Northern hardwoods	6,493.7	2,358.9*	342.8*	.0	9,195.4	14
Aspen/birch	66.3**	431.6**	87.8**	.0	585.7	44
Total, all groups	18,158.4	5,721.7	1,477.4	.0	25,357.5	6.0
Sampling error (percent)	9	16	27	0	6.0	
	Green tons per acre[b]					
White/red pine	21.2	6.4	.0	.0	16.4	
Spruce/fir	12.5	7.1	5.8	.0	10.2	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	7.2	.0	.0	.0	7.2	
Elm/ash/red maple	.0	11.8	.0	.0	11.8	
Northern hardwoods	16.7	11.5	5.3	.0	14.0	
Aspen/birch	6.3	8.2	2.1	.0	5.6	
All groups	14.1	8.6	5.2	.0	11.3	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 66.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Sagadahoc County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	670.4*	75.7**	.0	.0	746.1	31
Spruce/fir	68.8**	.0	.0	.0	68.8	100
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	37.9**	.0	.0	.0	37.9	100
Oak/hickory	25.0**	19.8**	.0	.0	44.8	58
Elm/ash/red maple	.0	.0	.0	.0	.0	0
Northern hardwoods	455.0**	178.1**	3.0**	.0	636.1	41
Aspen/birch	.0	19.0**	.0	.0	19.0	100
Total, all groups	1,257.1	292.6	3.0	.0	1,552.7	19.6
Sampling error (percent)	26	39	100	0	19.6	
	Green tons per acre[b]					
White/red pine	16.3	5.9	.0	.0	12.9	
Spruce/fir	15.6	.0	.0	.0	15.6	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	7.9	.0	.0	.0	7.9	
Oak/hickory	2.7	4.4	.0	.0	3.2	
Elm/ash/red maple	.0	.0	.0	.0	.0	
Northern hardwoods	25.4	13.5	.8	.0	18.2	
Aspen/birch	.0	4.2	.0	.0	4.2	
All groups	16.2	35.0	.2	.0	12.5	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 67.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Somerset County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	1,123.5*	550.0*	16.6**	.0	1,690.1	33
Spruce/fir	7,634.5	3,743.2	699.3*	.0	12,077.0	10
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	.0	118.9**	.0	.0	118.9	100
Elm/ash/red maple	266.2**	111.4**	.0	.0	377.6	76
Northern hardwoods	10,214.9	2,199.4*	168.7**	.0	12,583.0	13
Aspen/birch	393.2**	629.4*	.0	.0	1,022.6	36
Total, all groups	19,632.3	7,352.3	884.6	.0	27,869.2	5.6
Sampling error (percent)	9	12	35	0	5.6	
	Green tons per acre[b]					
White/red pine	13.6	7.6	.8	.0	9.6	
Spruce/fir	11.7	7.8	5.6	.0	9.6	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	.0	11.4	.0	.0	11.4	
Elm/ash/red maple	25.6	10.8	.0	.0	18.2	
Northern hardwoods	21.4	11.2	2.3	.0	16.8	
Aspen/birch	12.6	8.7	.0	.0	8.2	
All groups	15.6	8.8	3.7	.0	11.9	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 68.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Waldo County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	715.4*	256.1**	18.2**	.0	989.7	32
Spruce/fir	671.0*	424.6	26.5**	.0	1,122.1	22
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	62.4**	7.3**	.0	.0	69.7	90
Elm/ash/red maple	.0	215.1**	.0	.0	215.1	80
Northern hardwoods	613.1*	1,118.3*	211.5*	.0	1,942.9	20
Aspen/birch	.0	280.1*	46.7**	.0	326.8	38
Total, all groups	2,061.9	2,301.5	302.9	.0	4,666.3	9.3
Sampling error (percent)	20	16	37	0	9.3	
	Green tons per acre[b]					
White/red pine	22.0	15.9	4.4	.0	18.8	
Spruce/fir	16.6	7.0	3.3	.0	10.3	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	15.6	1.8	.0	.0	5.8	
Elm/ash/red maple	.0	27.9	.0	.0	27.9	
Northern hardwoods	21.8	13.9	6.5	.0	13.8	
Aspen/birch	.0	8.7	6.1	.0	8.2	
All groups	19.6	11.5	5.4	.0	12.9	

[a] Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b] Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 69.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, Washington County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	719.6**	259.3**	.0	.0	978.9	39
Spruce/fir	4,500.7	5,816.0	258.2**	.0	10,574.9	11
Loblolly/shortleaf	.0	.0	.0	.0	.0	0
Oak/pine	.0	.0	.0	.0	.0	0
Oak/hickory	.0	10.9**	.0	.0	10.9	100
Elm/ash/red maple	.0	465.4**	17.2**	.0	482.6	74
Northern hardwoods	2,122.7**	2,223.4**	245.7**	.0	4,591.8	21
Aspen/birch	711.6**	331.2**	66.5**	.0	1,109.3	40
Total, all groups	8,054.6	9,106.2	587.6	.0	17,748.4	6.2
Sampling error (percent)	13	13	34	0	6.2	
	Green tons per acre[b]					
White/red pine	9.8	12.2	.0	.0	10.3	
Spruce/fir	14.2	14.9	2.7	.0	13.1	
Loblolly/shortleaf	.0	.0	.0	.0	.0	
Oak/pine	.0	.0	.0	.0	.0	
Oak/hickory	.0	1.0	.0	.0	.5	
Elm/ash/red maple	.0	22.1	1.6	.0	15.0	
Northern hardwoods	18.3	16.1	3.8	.0	14.4	
Aspen/birch	16.9	10.3	.6	.0	6.1	
All groups	14.7	14.8	2.0	.0	12.2	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

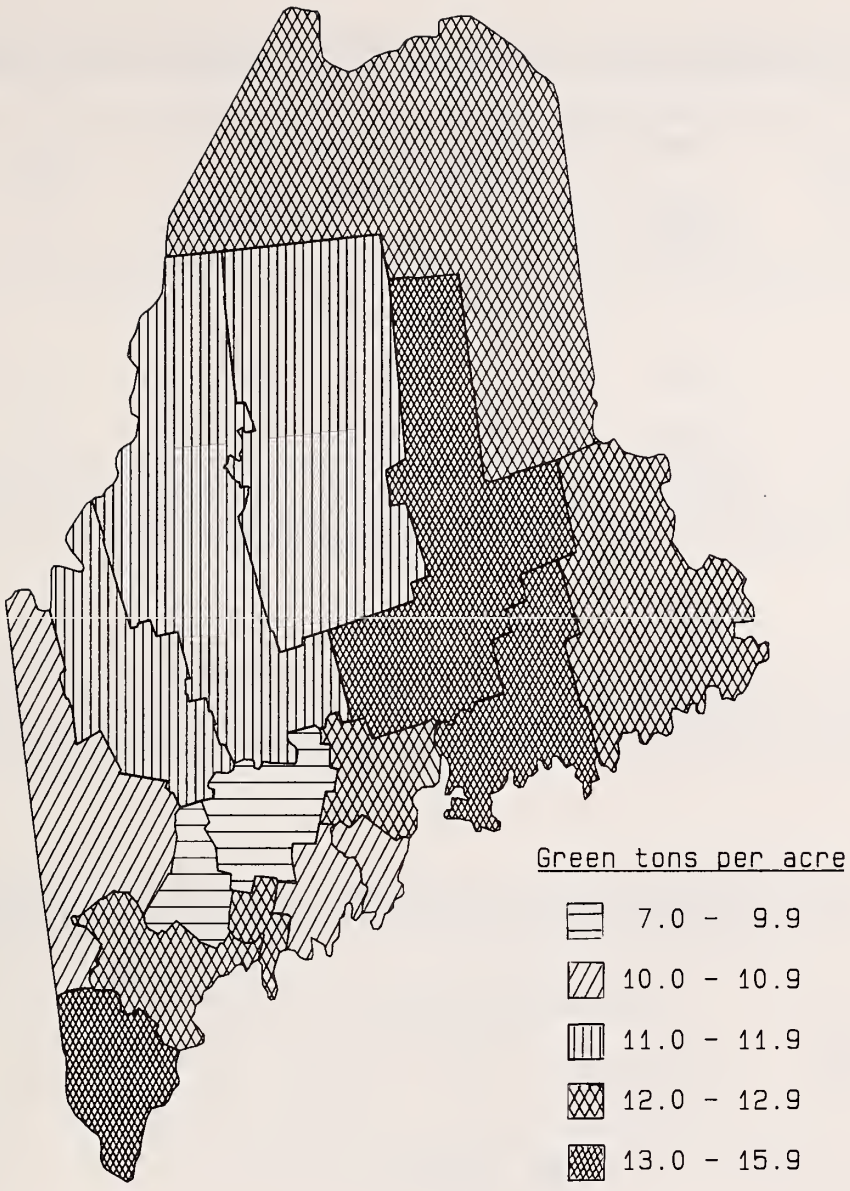
[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.

Table 70.--Net aboveground tree biomass of cull and salvable dead trees on timberland by forest-type group and stand-size class, York County, Maine, 1982

Forest-type group	Stand-size class				All classes	Sampling error[a]
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked		
	Thousand green tons					Percent
White/red pine	3,950.1	583.7*	138.7**	.0	4,672.5	20
Spruce/fir	40.7**	51.4**	.0	.0	92.1	71
Loblolly/shortleaf	6.4**	.0	2.0**	.0	8.4	80
Oak/pine	.0	25.6**	.0	.0	25.6	100
Oak/hickory	685.4*	230.2*	57.4**	.0	973.0	31
Elm/ash/red maple	65.2**	.0	.0	.0	65.2	100
Northern hardwoods	300.4**	927.1*	40.8**	.0	1,268.3	25
Aspen/birch	29.3**	61.5**	73.1**	.0	163.9	38
Total, all groups	5,077.5	1,879.5	312.0	.0	7,269.0	12.3
Sampling error (percent)	18	19	31	0	12.3	
	Green tons per acre[b]					
White/red pine	18.9	14.0	8.3	.0	17.5	
Spruce/fir	9.9	12.2	.0	.0	11.1	
Loblolly/shortleaf	1.5	.0	.5	.0	1.0	
Oak/pine	.0	6.1	.0	.0	6.1	
Oak/hickory	20.5	6.9	3.7	.0	11.8	
Elm/ash/red maple	17.6	.0	.0	.0	17.6	
Northern hardwoods	18.0	15.0	3.0	.0	13.8	
Aspen/birch	7.0	3.7	2.8	.0	3.5	
All groups	18.5	11.6	4.1	.0	14.2	

[a]Sampling errors are expressed as a percent of the total and are included only for row and column totals. A single asterisk (*) by a cell value indicates that the estimate has an associated sampling error between 25 and 50 percent; a double asterisk (**) indicates that the estimate has an associated sampling error greater than 50 percent, and therefore is not significantly different from zero.

[b]Per-acre estimates were developed by dividing the estimate of aboveground tree biomass for each table cell by the estimate of timberland area for that cell.



Concentrations of Cull and Salvable Dead Tree Biomass on Timberland

Table 71.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	277,746	28,533	1,798	308,077	167,308	475,385
Hardwoods	316,242	47,750	2,970	366,962	48,465	415,427
Total, all species	593,988	76,283	4,768	675,039	215,773	890,812
	Thousand green tons					
Softwoods	43,292.7	16,160.2	5,493.5	64,946.4	23,662.9	88,609.3
Hardwoods	61,587.1	41,850.0	7,386.2	110,823.3	10,690.3	121,513.6
Total, all species	104,879.8	58,010.2	12,879.7	175,769.7	34,353.2	210,122.9

Table 72.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Androscoggin County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	1,453	33	8	1,494	458	1,952
Hardwoods	3,642	223	23	3,888	353	4,241
Total, all species	5,095	256	31	5,382	811	6,193
	Thousand green tons					
Softwoods	234.6	41.6	45.9	322.1	90.2	412.3
Hardwoods	669.6	258.4	116.1	1,044.1	67.6	1,111.7
Total, all species	904.2	300.0	162.0	1,366.2	157.8	1,524.0

Table 73.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Aroostook County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	54,362	9,115	382	63,859	59,691	123,550
Hardwoods	51,056	11,563	698	63,317	11,171	74,488
Total, all species	105,418	20,678	1,080	127,176	70,862	198,038
	Thousand green tons					
Softwoods	8,614.9	3,853.4	453.9	12,922.2	8,123.8	21,046.0
Hardwoods	10,986.2	10,847.9	1,619.4	23,453.5	2,912.2	26,365.7
Total, all species	19,601.1	14,701.3	2,073.3	36,375.7	11,036.0	47,411.7

Table 74.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Cumberland County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	6,149	639	144	6,932	473	7,405
Hardwoods	7,680	711	33	8,424	591	9,015
Total, all species	13,829	1,350	177	15,356	1,064	16,420
	Thousand green tons					
Softwoods	1,332.3	673.6	683.2	2,689.1	89.7	2,778.8
Hardwoods	1,329.9	723.5	108.9	2,162.3	71.9	2,234.2
Total, all species	2,662.2	1,397.1	792.1	4,851.4	161.6	5,013.0

Table 75.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Franklin County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	14,753	543	48	15,344	7,412	22,756
Hardwoods	25,629	2,558	133	28,320	3,086	31,406
Total, all species	40,382	3,101	181	43,664	10,498	54,162
	Thousand green tons					
Softwoods	2,235.7	374.4	160.9	2,771.0	1,712.3	4,483.3
Hardwoods	4,427.0	1,985.9	436.6	6,849.5	618.6	7,468.1
Total, all species	6,662.7	2,360.3	597.5	9,620.5	2,330.9	11,951.4

Table 76.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Hancock County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	15,003	990	46	16,039	3,633	19,672
Hardwoods	20,213	1,862	238	22,313	2,884	25,197
Total, all species	35,216	2,852	284	38,352	6,517	44,869
	Thousand green tons					
Softwoods	2,357.5	781.5	228.0	3,367.0	486.2	3,853.2
Hardwoods	3,880.2	1,800.3	589.3	6,269.8	371.5	6,641.3
Total, all species	6,237.7	2,581.8	817.3	9,636.8	857.7	10,494.5

Table 77.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Kennebec County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	3,462	508	32	4,002	583	4,585
Hardwoods	7,409	749	18	8,176	830	9,006
Total, all species	10,871	1,257	50	12,178	1,413	13,591
	Thousand green tons					
Softwoods	695.0	457.5	59.1	1,211.6	114.0	1,325.6
Hardwoods	1,310.7	645.9	56.7	2,013.3	91.5	2,104.8
Total, all species	2,005.7	1,103.4	115.8	3,224.9	205.5	3,430.4

Table 78.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Knox County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	1,502	179	20	1,701	220	1,921
Hardwoods	3,258	427	2	3,687	339	4,026
Total, all species	4,760	606	22	5,388	559	5,947
	Thousand green tons					
Softwoods	276.1	195.5	140.9	612.5	29.6	642.1
Hardwoods	606.0	477.0	8.8	1,091.8	71.5	1,163.3
Total, all species	882.1	672.5	149.7	1,704.3	101.1	1,805.4

Table 79.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Lincoln County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	1,689	223	39	1,951	513	2,464
Hardwoods	3,755	447	51	4,253	508	4,761
Total, all species	5,444	670	90	6,204	1,021	7,225
	Thousand green tons					
Softwoods	356.6	286.0	159.0	801.6	67.5	869.1
Hardwoods	831.5	395.6	143.1	1,370.2	129.7	1,499.9
Total, all species	1,188.1	681.6	302.1	2,171.8	197.2	2,369.0

Table 80.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Oxford County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	9,932	996	58	10,986	4,796	15,782
Hardwoods	29,917	3,077	266	33,260	2,577	35,837
Total, all species	39,849	4,073	324	44,246	7,373	51,619
	Thousand green tons					
Softwoods	1,528.8	862.9	312.5	2,704.2	1,080.3	3,784.5
Hardwoods	5,094.2	2,502.5	801.5	8,398.2	477.1	8,875.3
Total, all species	6,623.0	3,365.4	1,114.0	11,102.4	1,557.4	12,659.8

Table 81.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Penobscot County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	44,558	3,282	218	48,058	20,027	68,085
Hardwoods	50,286	6,382	107	56,775	6,920	63,695
Total, all species	94,844	9,664	325	104,833	26,947	131,780
	Thousand green tons					
Softwoods	6,558.3	1,706.5	973.8	9,238.6	2,458.7	11,697.3
Hardwoods	10,810.3	5,103.7	243.6	16,157.6	1,145.7	17,303.3
Total, all species	17,368.6	6,810.2	1,217.4	25,396.2	3,604.4	29,000.6

Table 82.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Piscataquis County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	36,418	5,085	363	41,866	30,421	72,287
Hardwoods	29,869	6,935	455	37,259	5,998	43,257
Total, all species	66,287	12,020	818	79,125	36,419	115,544
	Thousand green tons					
Softwoods	5,404.5	2,399.2	559.2	8,362.9	3,544.1	11,907.0
Hardwoods	5,889.2	5,462.2	731.0	12,082.4	1,368.1	13,450.5
Total, all species	11,293.7	7,861.4	1,290.2	20,445.3	4,912.2	25,357.5

Table 83.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Sagadahoc County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	891	308	45	1,244	458	1,702
Hardwoods	1,664	270	16	1,950	215	2,165
Total, all species	2,555	578	61	3,194	673	3,867
	Thousand green tons					
Softwoods	203.4	313.6	274.1	791.1	95.2	886.3
Hardwoods	268.3	305.5	62.8	636.6	29.8	666.4
Total, all species	471.7	619.1	336.9	1,427.7	125.0	1,552.7

Table 84.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Somerset County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	28,850	3,138	53	32,041	24,980	57,021
Hardwoods	37,501	7,142	687	45,330	7,801	53,131
Total, all species	66,351	10,280	740	77,371	32,781	110,152
	Thousand green tons					
Softwoods	4,579.0	1,553.5	77.1	6,209.6	3,831.9	10,041.5
Hardwoods	7,268.8	6,847.4	1,780.4	15,896.6	1,931.1	17,827.7
Total, all species	11,847.8	8,400.9	1,857.5	22,106.2	5,763.0	27,869.2

Table 85.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Waldo County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	4,395	564	38	4,997	1,196	6,193
Hardwoods	9,278	1,111	55	10,444	786	11,230
Total, all species	13,673	1,675	93	15,441	1,982	17,423
	Thousand green tons					
Softwoods	744.8	512.0	135.9	1,392.7	130.3	1,523.0
Hardwoods	1,813.4	1,016.3	197.3	3,027.0	116.3	3,143.3
Total, all species	2,558.2	1,528.3	333.2	4,419.7	246.6	4,666.3

Table 86.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, Washington County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	46,666	1,769	88	48,523	11,658	60,181
Hardwoods	23,529	3,257	81	26,867	4,233	31,100
Total, all species	70,195	5,026	169	75,390	15,891	91,281
	Thousand green tons					
Softwoods	6,761.8	902.6	218.6	7,883.0	1,676.9	9,559.9
Hardwoods	4,210.8	2,581.8	141.3	6,933.9	1,254.6	8,188.5
Total, all species	10,972.6	3,484.4	359.9	14,816.9	2,931.5	17,748.4

Table 87.--Number of trees and net aboveground tree biomass of cull and salvable dead trees on timberland by species group and diameter group, York County, Maine, 1982

Species group	Diameter group (inches at breast height) of cull trees				Salvable dead trees	All cull and salvable dead trees
	5.0-10.9	11.0-20.9	21+	All diameter groups		
	Thousand trees					
Softwoods	7,663	1,161	216	9,040	789	9,829
Hardwoods	11,556	1,036	107	12,699	173	12,872
Total, all species	19,219	2,197	323	21,739	962	22,701
	Thousand green tons					
Softwoods	1,409.4	1,246.4	1,011.4	3,667.2	132.2	3,799.4
Hardwoods	2,191.0	896.1	349.4	3,436.5	33.1	3,469.6
Total, all species	3,600.4	2,142.5	1,360.8	7,103.7	165.3	7,269.0

Appendix

Definition of Terms

Aboveground tree biomass. The net green weight of wood and bark in trees aboveground.

Biomass. The quantity of material in organic matter measured in terms of its weight.

Board foot. A unit of lumber measurement 1 foot long, 1 foot wide, and 1 inch thick, or its equivalent.

Commercial species. Tree species presently or prospectively suitable for industrial wood products. Excludes species of typically small size, poor form, or inferior quality such as hawthorn or sumac.

Cull trees. Rotten trees, that is, live trees of commercial species that do not contain at least one 12-foot sawlog or two noncontiguous 8-foot sawlogs and more than 50 percent of the cull volume is rotten; rough trees, that is, live trees that (1) do not meet regional specifications for freedom from defect primarily because of roughness or poor form, or (2) noncommercial species.

Diameter at breast height (dbh). The diameter outside bark of a standing tree measured at 4-1/2 feet above the ground on the uphill side of the tree.

Forest land. Land that is at least 10 percent stocked with trees of any size, or that formerly had such tree cover and is not currently developed for a nonforest use. The minimum area for classification of forest land is 1 acre.

Forest type. A classification of forest land based on the species that form a plurality of the stocking (basal area of all live trees).

Forest-type group. A combination of forest types that share closely associated species or site requirements. The many forest types in Maine were combined into the following major forest-type groups (the descriptions apply to forests in Maine):

a. White/red pine--forests in which white pine, hemlock, or red pine make up the plurality of the stocking, singly or in combination; common associates include red maple, red spruce, balsam fir, northern red oak, paper birch, and aspen.

b. Spruce/fir--forests in which red spruce, northern white-cedar, balsam fir, white spruce, black spruce, or tamarack make up the plurality of the stocking, singly or in combination; common associates include paper birch, red maple, aspen, white pine, hemlock, yellow birch, and sugar maple.

c. Loblolly/shortleaf pine-- forests in which pitch pine makes up a plurality of the stocking; gray birch is an associate of this rare type group.

d. Oak/pine--forests in which northern red oak or white ash make up a plurality of the stocking, singly or in combination, but where white pine contributes 25 to 50 percent of the stocking; common associates include beech and red spruce.

e. Oak/hickory--forests in which upland oaks, red maple (when associated with central hardwoods), or hawthorn make up a plurality of the stocking, singly or in combination, but where white pine contributes less than 25 percent of the stocking; common associates include white pine, paper birch, red spruce, beech, hemlock, and balsam fir.

f. Elm/ash/red maple--forests in which black ash, elm, red maple (when growing on wet sites), willow, or green ash make up a plurality of the stocking, singly or in combination; common associates include balsam fir, northern white-cedar, aspen, and white ash.

g. Northern hardwoods--forests in which sugar maple, beech, yellow birch, red maple (when associated with northern hardwoods), pin cherry, or black cherry make up a plurality of the stocking, singly or in combination; common associates include balsam fir, red spruce, paper birch, hemlock, white ash, aspen, and white pine.

h. Aspen/birch--forests in which aspen, paper birch, or gray birch make up a plurality of the stocking, singly or in combination; common associates include balsam fir, red maple, red spruce, white spruce, and white pine.

Green weight. The weight of wood and bark as it would be if it had been recently cut, usually expressed in pounds or tons. Net green weight equals gross weight less deductions for all unsound (rotten) material.

Growing-stock trees. Live trees of commercial species classified as either sawtimber, poletimber, saplings, or seedlings; all live trees except cull trees. While saplings and seedlings are classified as growing-stock trees, by USDA Forest Service definition, they contain no volume.

Growing-stock volume. Net volume, in cubic feet, of growing-stock trees 5.0 inches dbh and larger from a 1-foot stump height to a minimum 4.0-inch top dob of the central stem, or to the point where the central stem breaks into limbs if that occurs before it reaches this minimum diameter. Net volume equals gross volume less deduction for cull.

Hardwoods. Dicotyledonous trees, usually broad-leaved and deciduous.

International 1/4-inch rule. A log rule or formula for estimating the board-foot volume of logs. For 4-foot sections, the mathematical formula is $(0.22D^2 - 0.71D)$ (0.904762); where D=diameter inside bark at the small end of the log section. This rule is used as the USDA Forest Service standard log rule in the Eastern United States.

Merchantable stem. The main stem of the tree between a 1-foot stump height and a 4-inch top diameter (outside the bark), wood and bark.

Noncommercial species. Tree species of typically small size, poor form, or inferior quality that normally do not develop into trees suitable for industrial wood products.

Nongrowing-stock biomass. The biomass in cull trees (including noncommercial tree species), salvable dead trees, saplings, stumps between ground level and a 1-foot stump height, and the tops of growing-stock trees.

Poletimber trees. Live trees of commercial species meeting regional specifications of soundness and form and at least 5.0 inches in dbh, but smaller than sawtimber trees.

Salvable dead trees. Trees at least 5.0 inches in dbh that have recently died, but still have intact bark. The trees may be standing, fallen, windthrown, knocked down, or broken off.

Sampling error. A measure of the reliability of an estimate, expressed as a percentage of the estimate. The sampling errors given in this report correspond to one standard deviation and are calculated as the square root of the variance, divided by the estimate, and multiplied by 100.

Saplings. Live trees 1.0 inches through 4.9 inches dbh.

Sawlog portion. The part of the bole of a sawtimber tree between the stump and the point on the bole above which a sawlog cannot be produced. The minimum sawlog top is 7.0 inches dob for softwoods and 9.0 inches dob for hardwoods.

Sawtimber trees. Live trees of commercial species at least 9.0 inches dbh for softwoods or 11.0 inches for hardwoods, containing at least one 12-foot sawlog or two noncontiguous 8-foot sawlogs, and meeting regional specifications for freedom from defect.

Sawtimber volume. Net volume in board feet, by the International 1/4-inch rule, of sawlogs in sawtimber trees. Net volume equals gross volume less deductions for rot, sweep, and other defects that affect use for lumber.

Seedlings. Live trees less than 1.0-inch dbh and at least 1 foot in height.

Softwoods. Coniferous trees, usually evergreen, with needles or scalelike leaves.

Stand-size class. A classification of forest land based on the size class of all live trees in the area.

a. Sawtimber stand--stands of timber on forest land where (1) all live trees make up at least 10 percent of the minimum full stocking; (2) half or more of the stocking is made up of poletimber trees, sawtimber trees, or both; and (3) the stocking of sawtimber is at least equal to that of poletimber.

b. Poletimber stand--stands of timber on forest land where (1) all live trees make up at least 10 percent of the minimum full stocking; (2) half or more of the stocking is made up of poletimber trees, sawtimber trees, or both; and (3) the stocking of poletimber exceeds that of sawtimber.

c. Sapling-seedling stand--stands of timber on forest land where (1) all live trees make up at least 10 percent of the minimum full stocking; and (2) half or more of the stocking is made up of saplings, seedlings, or both.

d. Nonstocked area--stands of timber on forest land where all live trees make up less than 10 percent of the minimum full stocking.

Stump. The main stem of a tree from ground level to 1 foot above ground level, including the wood and bark. Excludes the stump-root system below the ground.

Timberland. Forest land producing or capable of producing crops of industrial wood (more than 20 cubic feet per acre per year) and not withdrawn from timber utilization. Formerly known as commercial forest land.

Top and branches. The wood and bark of a tree above the merchantable height (or above the point on the stem 4.0 inches dob). It includes the uppermost stem, branches, and twigs of the tree but not the foliage.

Trees. Woody plants that have well-developed stems and are usually more than 12 feet in height at maturity.

Upper-stem portion. That part of the main stem or fork of a sawtimber tree above the sawlog top to a diameter of 4.0 inches dob, or to the point where the main stem or fork breaks into limbs.

Tree Species of Maine (as encountered on field plots)

Scientific Name[a]	Common Name(s)	Occurrence[b]
	SOFTWOODS	
Abies balsamea (L.) Mill.	balsam fir	vc
Juniperus virginiana L.	eastern redcedar	vr
Larix laricina (Du Roi) K. Koch	tamarack, eastern larch, hackmatack	c
Picea abies (L.) Karst.	Norway spruce	vr
P. glauca (Moench) Voss	white spruce	c
P. mariana (Mill.) B.S.P.	black spruce	c
P. rubens Sarg.	red spruce	vc
Pinus resinosa Ait.	red or Norway pine	r
P. rigida Mill.	pitch pine	vr
P. strobus L.	eastern white pine	c
Thuja occidentalis L.	northern white-cedar	vc
Tsuga canadensis (L.) Carr.	eastern hemlock	c
	HARDWOODS	
Acer pensylvanicum L.[c]	striped maple, moosewood	c
A. rubrum L.	red, soft, or swamp maple	vc
A. saccharinum L.	silver or soft maple	vr
A. saccharum Marsh.	sugar, rock, or hard maple	c
A. spicatum Lam.[c]	mountain maple	vr
Ailanthus altissima (Mill.) Swingle[c]	Ailanthus, tree-of-heaven	vr
Betula alleghaniensis Britton	yellow birch	c
B. lenta L.	sweet, black, or cherry birch	vr
B. papyrifera Marsh.	paper, white, or canoe birch	vc
B. populifolia Marsh.	gray birch	c
Carpinus caroliniana Walt.[c]	American hornbeam, blue-beech	vr
Carya spp. Nutt.	hickory	vr
Fagus grandifolia Ehrh.	American beech	c
Fraxinus americana L.	white ash	c
F. nigra Marsh.	black or brown ash	c
F. pennsylvanica Marsh.	green or red ash	r
Juglans cinera L.[c]	butternut	vr
Malus spp. Mill.[c]	apple	r
Nyssa sylvatica Marsh.	blackgum or black tupelo	vr
Ostrya virginiana (Mill.) K. Koch[c]	eastern hophornbeam or ironwood	r
Populus balsamifera L.	balsam poplar	r
P. grandidentata Michx.	bigtooth aspen, poplar, or popple	c
P. tremuloides Michx.	quaking or trembling aspen, popple	c
Prunus pensylvanica L.f.[c]	pin or fire cherry	r
P. serotina Ehrh.	black cherry	r
Quercus alba L.	white oak	r
Q. coccinea Muenchh.	scarlet oak	vr
Q. rubra L.	northern red oak	c
Q. velutina Lam.	black or yellow oak	r
Robinia pseudoacacia L.	black locust	vr
Salix spp. L.[c]	willow	vr
S. nigra Marsh.	black willow	vr
Tilia americana L.	American basswood	r
Ulmus americana L.	American elm	r
U. rubra Muhl.	slippery or red elm	vr

[a]Names according to: Little, Elbert L., Jr. Checklist of United States trees (native and naturalized). Agric. Handb. 541. Washington, DC: U.S. Department of Agriculture, Forest Service; 1979. 375 p.

[b]Occurrence is based on the proportion of the species among all live trees 5.0 inches dbh or larger encountered on forest survey field plots: vr = very rare (<0.05%), r = rare (0.05 to 0.49%), c = common (0.5 to 4.9%), and vc = very common (≥5.0%).

[c]Noncommercial species.

Conversions and Metric Equivalents

breast height = 1.4 m above ground level
1 inch = 2.54 cm or 0.0254 m
1 foot = 0.3048 m
1 acre = 4,046.86 m^2 or 0.4047 ha
1 board foot[a] = 0.00348 m^3
1 ft^3 = 0.02832 m^3
1 ft^3 softwoods = 0.027 green tons
1 ft^3 hardwoods = 0.033 green tons
1 ton = 2,000 pounds or 907.1848 kg
1 green ton softwoods = 9.0 million btu
1 green ton hardwoods = 8.6 million btu

[a]While 1,000 board feet is theoretically equivalent to 2.36 m^3, this is true only when a board foot is actually a piece of wood with a volume 1/12 of a ft^3. The conversion given here, 3.48 ft^3, is based on the cubic volume of a log 16 feet long and 15 inches diameter inside bark (dib) at the small end. This conversion can be used for average comparisons when an accuracy of 10 percent is acceptable.

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Wharton, Eric H.; Frieswyk, Thomas S.; Malley, Anne M. Aboveground tree biomass statistics for Maine: 1982. Resour. Bull. NE-86. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station; 1985. 116 p.

A statistical report based on the third forest survey of Maine conducted in 1980-82. Results of the survey are displayed in 87 tables containing estimates of timberland area, timber volume, numbers of trees, and aboveground tree biomass. These estimates were developed by several classifications including forest type, species, and size. The data are presented at two levels: state and county.

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Headquarters of the Northeastern Forest Experiment Station are in Broomall, Pa. Field laboratories are maintained at:

- Amherst, Massachusetts, in cooperation with the University of Massachusetts.
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